AGREEMENT

This Agreement is entered into this 11th day of October, 2005, by and between Leon County, Florida, a charter county and a political subdivision of the State of Florida, hereinafter "County," and Kimley-Horn and Associates, Inc., hereinafter "Contractor".

WITNESSETH

For and in consideration of the mutual covenants, restrictions, and representations set forth herein, the sufficiency of which is hereby acknowledged, County and Contractor do hereby agree as follows:

1. County and Contractor entered into an Agreement dated July 8, 2002, between County and Contractor, which Agreement allows for changes to be made to the agreement with prior written agreement signed by the parties thereto, the parties hereby agree to extend the Agreement to December, 2006.

2. The Scope of Services for the project is revised to include the Scope of Services for the West Tharpe Street Final Design contained in Attachment 1.

3. The total cost of this extended contract will be $1,489,539.96. The Optional Services provided for in the Project Scope of Services may be approved at the sole discretion of the County asn shall not exceed and additional $768,555.34.

3. All other provisions of the (date of agreement) Agreement remain in full force and effect.

4. This agreement shall become effective upon full execution hereof by both parties.

IN WITNESS WHEREOF, the parties evidence their agreement through the execution of this AGREEMENT by their duly authorized signatories.

CONTRACTOR

WITNESS:_____ BY:_____
President

WITNESS:_____ DATE:_____

(CORPORATE SEAL)

STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me this _____day of_____, 20 ___.

By _____, of _____,
(Name of officer or agent, title of officer or agent) (Name of corporation acknowledging)

a _____ corporation, on behalf of the corporation.
(State or place of incorporation)

He/she is personally known to me or has produced _____as
(type of identification)

_____
Signature of Notary

_____
Print, Type or Stamp Name of Notary

_____
Title or Rank

_____
Serial Number, If Any

LEON COUNTY, FLORIDA

BY:_____
Cliff Thaell, Chairman
Board of County Commissioners

DATE:_____

ATTEST:
BOB INZER, CLERK OF THE COURT
LEON COUNTY, FLORIDA

By:_____

APPROVED AS TO FORM:
LEON COUNTY ATTORNEY'S OFFICE

By:_____
Herbert W.A. Thiele, Esq.
County Attorney

Kimley-Horn
and Associates, Inc.

ATTACHMENT 1

SCOPE OF SERVICES

West Tharpe Street Final Design

Leon County, Florida

Prepared for:

Leon County Department of Public Works

Supplemental Agreement No. 1 to the Contract between the Leon County Board of County Commissioners and Kimley-Horn and Associates, Inc. dated April 15, 2003

SCOPE OF SERVICES
FOR FINAL ROADWAY DESIGN SERVICES

For

West Tharpe Street

Between

400 Feet East of NW Capital Circle to 200 Feet West of Ocala Road
Tallahassee, Florida

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PART I - PREAMBLE

A. PURPOSE

This Scope of Services is an amendment to the contract between the Leon County Board of County Commissioners and Kimley-Horn and Associates, Inc., dated April 15, 2003. The purpose of the aforementioned contract was to perform a corridor study for West Tharpe Street from Capital Circle NW to Ocala Road and to make recommendations for improvements to the subject corridor. With the completion of the corridor study, this scope of services is a supplemental agreement to the subject contract to provide final design and construction phase services for the subject corridor.

The purpose of this Exhibit is to describe the scope of work and the responsibilities of Kimley-Horn and Associates, Inc, hereinafter called the CONSULTANT and the Leon County Department of Public Works, hereinafter called the CLIENT, in connection with the completion of necessary Engineering and Environmental Studies, Public Involvement activities and the final Design and preparation of a complete set of roadway construction plans for the proposed improvements to ***West Tharpe Street.***

The CONSULTANT will perform those engineering analyses, designs and public involvement services required to complete the final design and to prepare a set of contract plans to include roadway, drainage, signing and pavement markings, signalization, railroad crossing improvements, lighting (coordination with the City of Tallahassee only), landscaping, and aesthetics, underground utilities and irrigation. It will be the CONSULTANT's responsibility to utilize a professional standard of care during the execution of the work commissioned under this contract. The CONSULTANT will demonstrate good project management practices while working on this project. These include communication with the CLIENT and others as necessary, management of time and resources, and documentation.

The CLIENT will perform those engineering studies, designs and public involvement services, and technical reviews of work associated with the development and preparation of the contract plans. The CLIENT will provide job specific information and/or functions as outlined in this contract.

The Plans under this agreement will be prepared in English units of measure.

B. OBJECTIVES

The West Tharpe Street Corridor is an east-west thoroughfare in the northwest section of the City of Tallahassee, Leon County, Florida. The road is currently two lanes and suffers from periodic congestion. In 2002, Leon County contracted with Kimley-Horn and Associates, Inc. to perform a corridor planning study and conceptual design for the corridor, which included an interactive public involvement process. This work was moved for approval in February 2005 with a workshop with the Leon County Board of County Commissioners. It is now the desire of Leon County to complete the preparation of final design plans for the project and to prepare the necessary documents to bid the project construction.

C. PROJECT DESCRIPTION

The work included in the scope of services includes widening of West Tharpe Street from its existing two-lane configuration to a four-lane divided urban section. This will include the project as defined by Conceptual Improvement plans prepared by Kimley-Horn and Associates and dated October 2004. This includes approximately 2.5 mile of improvements along West Tharpe Street beginning approximately 400 feet east of the intersection of NW Capital Circle and extending to approximately 200 feet west of Ocala Road. Major improvements to crossroads are planned at Blountstown Highway, Mission Road, Sheridan Road and Devra Drive/San Luis Road. Four (4) sites for storm water treatment facilities are planned as showed in the subject conceptual plans. One railroad crossing improvement is included in the work. Four signalized intersection will be added or upgraded.

PART II - FINAL ROADWAY DESIGN

A. General

The CONSULTANT will prepare the **Roadway Plans Package**. This work effort includes the roadway design and drainage analysis needed to prepare a complete set of Roadway Plans, Drainage Plans, Traffic Control Plans, Traffic Signal Plans, Signing and Pavement Markings, Landscape Plans, Railroad Crossing Permit Drawings, Environmental Permits and other necessary documents.

B. Surveying and Mapping Services

All surveying and mapping services will be performed in accordance with the following procedures and standards:

(a) *All survey work will be recorded in field books supplied by the CLIENT. These field books are to be returned to the client upon completion of the field work.*
(b) *(Supplemental, where required)* locate topographic features to supplement the Digital Terrain Model (DTM) within the proposed survey limits
(c) Collect sufficient data to generate a Digital Terrain Model (DTM) for the proposed pond sites
(d) *(Supplemental, where required)* Locate above ground utilities (signs, pedestals, valve covers, etc.) and those marked on the ground by others, and add to the ACAD database.
(e) *(Supplemental, where required)* Locate and obtain invert elevations on existing pipes (side drains, cross drains, force mains, storm/sanitary, etc.) within the limits of the project.
(f) Perform Boundary Survey and prepare descriptions of new pond sites.
(g) The project surveyor will certify by a signed and sealed letter that the survey information and the field survey procedures were performed according to the CLIENT's Requirements and meet or exceed the Minimum Technical Standards for Land Surveyors as set forth in the Florida Administrative Code Chapter 61G17-6, pursuant to Florida Statute 472.027.
(h) All work will be coordinated and subject to the review of the CLIENT Surveying and Mapping Manager. The survey data will be recorded in an ACAD database. The CONSULTANT will furnish the CLIENT with legible copies of pertinent information utilized in making the survey as well as the ACAD database on a CD-ROM or other acceptable medium.

1. *Design Survey*

(a) Perform supplemental design surveys as needed to support the final design.
(b) Stake and station the centerline alignment established for the Road and any side roads as necessary for design, including the beginning and ending stations, P.C.'s, P.T.'s, Non-Curve P.I.'s, at ¼ mile intervals (from other staked/stationed points) and at the intersection of the road and any dedicated connecting side roads. Centerline points will be referenced making sure that references are outside of the right-of-way. The data will be recorded in the ACAD database. NOTE: centerline reference points will be chained together, annotated and placed in the ACAD database resulting in each centerline control point having one chain and description of its references.
(c) Establish a series of bench marks (based on NAVD 88) throughout the project at not more than one thousand (1000) feet intervals and outside the anticipated limits of construction. Provide to the CLIENT SURVEYOR a hard copy of the field notes and bench mark table to include name, elevation, the elevation datum, station & offset and description for each bench mark.

2. *Legal Descriptions*

Once 60% roadway plans are completed and reviewed by the CLIENT, coordination will be made with the Leon County Attorney's office and the Leon County Right-of-way office to determine the course of action with respect to right-of-way acquisition. Provided that the decision is made to move forward with the right-of-way acquisition process, this task and Sub-task No. 3 (below) will be undertaken.

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Parcel descriptions and sketches will be prepared by the CONSULTANT for proposed right-of-way, required easements and the new pond sites. The CONSULTANT will submit copies of each legal description and sketch, signed and sealed by the Professional Surveyor and Mapper in responsible charge, to the CLIENT. Title work will be provided by the CONSULTANT for parcels within the project limits through use of a Title Company sub-consultant. Three (3) signed and sealed sets of the final legal descriptions, sketches will be provided, along with supporting title work.

3. *Rights-of-Way and Easement Determination*

Based on the chosen roadway alignment, CONSULTANT will determine the required right-of-way and easements necessary for construction of the project, including wetland mitigation and storm water detention/retention sites and indicate these on the construction plans. Rights-of-way and easements include: roadway right-of-way, wetland mitigation and storm water detention/retention sites rights-of-way and/or easements; temporary construction easements; public and private utility easements; drainage easements; and any other improvements requiring right-of-way or easement acquisition. The areas of rights-of-way and easement takings are to be limited to only those, which are essential for construction of the roadway, wetland mitigation, storm water ponds and other required improvements. Mitigation areas and storm water detention/retention sites rights-of-way requirements for the alternative mitigation and storm water sites have been determined during the corridor study. Final requirements for rights-of-way and easements will be determined, included on the construction drawings and submitted beginning with the 60% design review submittal. Parcel Descriptions and sketches will be submitted within 2 weeks of the 60% plans submittal. At the 60% plan submittal, the schedule for preparation and delivery of the right-of-way and easement documents will be established. After the 60% design submittal that includes the required right-of-way and easements, CONSULTANT will not revise the indicated right-of-way lines or easements without permission of CLIENT PROJECT MANAGER. The CONSULTANT will prepare the final right-of-way maps, legal description, sketches, and provide copies of ownership and encumbrance reports and submit as part of the 90% design review submittal and verify that the right-of-way maps are consistent with the final roadway plans. The CONSULTANT will respond to comments made for this submittal. Three (3) signed and sealed sets of the final legal descriptions, sketches will be provided, along with supporting title work.

If required, at the time of the right-of-way acquisition, the CONSULTANT will update the title information for the properties where there have been some changes to the ownership. This work will be performed on an hourly rate basis.

4. <u>Pond Site Surveys</u>

Pond site surveys were not included in the design surveys taken for the conceptual study. They will need to be taken for use in the final design. It is acknowledged that the pond sites may become joint use ponds with the City of Tallahassee; if so, the effort required may be subject to change. The work will include surveys for the following:

- Pond located south of the corridor approximately one-half mile east of NW Capital Circle. This will include survey and cross sections of the outfall path from the West Tharpe Street right-of-way line in two locations.
- Pond located at the southeast corner of Blountstown Highway (currently Kim's Seafood).
- Pond located on Trimble Road, approximately 1000 feet south of West Tharpe Street. This includes survey along Trimble Road in order to design an outfall to this location.
- Pond site located at the northwest corner of Botany Drive and Fairlane Road on two existing residential properties.

C. Geotechnical Exploration

1. Roadway Geotechnical Requirements

- Roadway augers taken at 100 foot intervals, alternating sides of the road. Depth of borings to be consistent with FDOT practices for depth below proposed roadway elevations.
- Provide Roadway Soil Boring sheets per FDOT practices
- Provide geotechnical recommendations regarding the proposed roadway construction project including the following: description of the site/alignment, design recommendations and discussion of any special considerations (i.e. removal of unsuitable material, consolidation of weak soils, estimated settlement time/amount, groundwater control, high groundwater conditions relative to pavement base, etc.) Evaluate and recommend types of geosynthetics and properties for various applications, as required.
- Prepare a Final Roadway Report shall include the following:
  - Copies of U.S.G.S. and S.C.S. maps with project limits shown.
  - A report of tests sheet that summarizes the laboratory test results, the soil stratification (i.e. soils grouped into layers of similar materials) and construction recommendations relative to Standard Indices 500 and 505.
  - Results of the tasks discussed in the previous section (Data Interpretation and Analysis).
  - An appendix that contains stratified soil boring profiles, laboratory test data sheets, sample embankment settlement and stability calculations, design LBR calculation/graphs, and other pertinent calculations.
  - The CONSULTANT will respond in writing to any changes and/or comments from the CLIENT and submit any responses and revised reports.
- Box Culvert geotechnical investigations will be required for a new box culvert to be constructed across West Tharpe Street, east of Trimble Road.
  - Provide the design soil profile(s) that include the soil model/type of each layer and the soil properties required by the Engineer of Record for foundation design. Review design for geotechnical compatibility and constructability.
  - Provide lateral earth pressure coefficients.
  - Provide box culvert construction and design recommendations.
  - Estimate differential and total (long term and short term) settlements.
  - Evaluate wingwall stability.
- Retaining Walls and Noise Walls - Provide the design soil profile(s), which include the soil model/type of each layer and soil engineering properties required by the Engineer of Record for conventional wall and noise wall analyses and recommendations. Review wall design for geotechnical compatibility and constructability. Evaluate the external stability of conventional retaining walls and noise walls. Estimate differential and total (long term and short term) settlements. Provide wall construction recommendations.

2. Pond Geotechnical Requirements

- Pond 1 - 2 double ring infiltrometer tests, at a depth 5 feet below the existing ground surface; and two soil borings within the limits of the pond to a depth of 30 feet.
- Pond 2 – 2 double ring infiltrometer tests and one soil boring within the limits of the pond to a depth of 30 feet within the limits of the pond.
- Pond 3 (Mission Trimble site) - 2 double ring infiltrometer test, at a depth 5 feet below existing ground; and two soil borings within the limits of the pond to a depth of 30 feet.
- Pond 4 (Ocala Rd site) - 2 infiltrometer tests and one soil boring within the limits of the pond to a depth of 30 feet within the limits of the pond.

3. Traffic Signal Geotechnical Requirements

Two geotech borings at each signal of four (4) signal locations. Locations are along Tharpe Street at the following locations:

- The new intersection of Blountstown Highway (currently Blountstown Street at the NW corner of Kim's Seafood property).
- Mission Road.
- Trimble Road
- Devra Drive/San Luis Road

Following is the specifications for this work:

- All SPT borings 30 feet.
- Two borings total --- one boring in opposite corners of intersection
- Prepare boring log plan sheets and letter report.
- No corrosion testing – assume extremely aggressive.
- Identify water table elevation.
- Non-cohesive soils (sands) (provide parameters for one "design" soil layer)
  - Soil unit weight (moist and saturated)
  - Phi angle
- Cohesive soils (clays) (provide parameters for one "design" soil layer)
  - Soil unit weight (moist and saturated)
  - Cohesion

4. Contamination Assessment

When required, the work shall be performed in accordance with current Florida Department of Environmental Protection (FDEP) and Federal OSHA and EPA standards. The following work shall be included:

- Four borings will be required per site. Four (4) sites are to be investigated.
- Soil gas analysis will be required by use of a flame ionization detector; e.g. Organic Vapor Analyzer (OVA).
- Installation of monitoring wells may be required, but are not included in this effort.
- Water sampling and laboratory analysis will be required. The State of Florida Department of Health shall certify the laboratory performing the analysis.
- Four copies of the PCA report will be required for review and comment by the CLIENT. After comments have been addressed, six signed and sealed copies of the final PCA report shall be submitted to the CLIENT. Copies of documents will be additionally transmitted to the CLIENT in electronic format in accordance with the CLIENT's current standards.

D. **Design Analysis**

1. Typical Section Package - A Typical Section Package will be prepared and submitted to the CLIENT for review and approval.

2. Geometrics - The CONSULTANT will design the geometrics for the project in accordance with the classification for urban roads of Leon County, the City of Tallahassee, applicable Florida Department of Transportation (FDOT) standards, the Manual of Uniform Traffic Control Devices, with proper consideration given to the design traffic volumes, design speed, capacity and levels of service, functional classification, adjacent land use, design consistency and driver expectancy, drainage features, aesthetics, pedestrian and bicycle concerns, accessibility and accommodation for mass transit, ADA requirements, elder road user policy, access management and scope of work.

   The design elements will include, but not be limited to, the horizontal and vertical alignments, lane widths, cross slopes, borders, sight distance, side slopes and ditches, lane transitions, superelevation, features of intersections and utility conflicts.

3. Pavement Design Package - the required Pavement Designs will be prepared by the CONSULTANT.

4. Design Documentation, Computation Book and Quantities - The CONSULTANT will submit to the CLIENT **design notes and computations** to document the design conclusions reached during the development of the construction plans.

   Up to three (3) copies of the design notes and computations will be submitted to the CLIENT at each plan review, unless otherwise directed by the Project Manager. When the plans are submitted for each subsequent review, the design notes and computations corrected according to CLIENT comments will be resubmitted. At the project completion, a final set of design notes and computations will be submitted with the record set of plans and tracings.

   The design notes and calculations will include, but not be limited to the following data:

   a. Design standards used for the project.
   b. Geometric design calculations for horizontal alignment that is not included in the quantity computation booklet.
   c. Vertical geometry calculations.
   d. Capacity analysis and intersection operational analysis.
   e. Drainage computations.
   f. Earthwork calculations not included in the quantity computation booklet.
   g. Calculations showing cost comparisons of various alternatives considered.
   h. Documentation of decisions reached resulting from meetings, telephone conversations or site visits.
   i. Calculations of quantities.
   j. All permit support documentation.
   k. Justification for any variation from standards.
   l. Pavement design calculations.
   m. Signal timing calculations.

5. Summary of Pay Items - A **Summary of Pay Items spreadsheet** will be prepared at Interim and Final Plans phases.

6. Technical Special Provisions - The CONSULTANT will provide **Technical Special Provisions** for items of work not covered by FDOT Standard Specifications, Supplemental Specifications or Recurring Special Provisions.

E. Drainage Analysis

1. The CONSULTANT will be responsible for designing a drainage and stormwater management system. The design work will be in compliance with local, state and federal requirements. This work will include the engineering analysis necessary to design the following: cross drains, French drains, roadway ditches, outfall ditches, storm sewers, retention/detention facilities, interchange drainage and water management, other drainage systems and elements of systems as required for a complete analysis.

2. The locations of the drainage basins and outfalls will be as indicated in the preliminary engineering documents for this project.

3. The objective is to obtain an approved stormwater conveyance/treatment/attenuation design. This work will include finalizing the design and preparing construction documents for the construction of the proposed conveyance/treatment/attenuation facilities:

   a. Provide plans during Phase Submittals for review by the CLIENT and revise as necessary.
   b. Review preliminary design concept with permitting agencies and finalize plans.

4. The CONSULTANT will provide the CLIENT with up to three (3) signed and sealed copies of the **Drainage Design Report** in addition to those required for permitting. This will incorporate the work undertaken in the preliminary engineering phase of the project and will include final calculations for the proposed storm drainage system, final pond calculations and information required for permit review and approval.

F. **Structural Plans**

The CONSULTANT will prepare plan sheets, notes, and details for the following structures:

1. Retaining Walls – Approximately 1,734 linear feet of retaining walls will be required at several locations along the corridor as follows:
   - Along the north side of the road from approximate Sta. 107+36 to Sta. 108+00 (standard gravity retaining wall may be provided);
   - Along the north side of the road from approximate Sta. 222+00 to Sta. 228+90 (site-specific design will be required due to deep cut section and right-of-way limitations);
   - Along the south side of the road from approximate Sta. 223+00 to Sta. 229+20 (site-specific design will be required due to deep cut section and right-of-way limitations);
   - Along the north side of the road from approximate Sta. 229+40 to Sta. 233+00 (site-specific design will be required due to transitioning slopes on both sides of wall and the need to tie into an existing concrete retaining wall).

2. Noise Walls (optional services) – Approximately 1,865 linear feet of noise walls will be designed in two locations as follows:
   - Along the south side of the road from approximate Sta. 200+25 to Sta. 214+75 (between Falconcrest Drive and San Luis Road);
   - Along the south side of the road from approximate Sta. 228+40 to Sta. 214+75 (between San Luis Road and Ocala Road).

3. Special Drainage Structures – one special drainage structure for the gravity storm sewer system is anticipated in the vicinity of the West Drainage Ditch. In this location, it is anticipated that an inverted siphon or a type of conflict structure will be required that will be detailed in the final construction drawings.

G. Roadway Plans

The CONSULTANT will prepare plan sheets, notes, and details to include the following: Key Map, Typical Section sheet(s) with notes, Summary of Quantities sheet(s), Plan/Profile Sheet(s), Intersection Detail sheet(s), Special Profile sheet(s), Soil Data Sheet(s), Cross Section Sheet(s), miscellaneous construction details, alignment control and curve data, and any other detail sheets necessary to convey the intent and scope of the project for the purposes of construction.

H. Drainage Plans

The CONSULTANT will prepare, as required, plan sheets, notes, and details to include the following: Drainage Map sheet(s), Drainage Structure sheet(s), Summary of Drainage Structure sheet(s), Lateral Ditch and Outfall Plan sheet(s), Lateral Ditch and Outfall Cross Section sheet(s), Retention/Detention Plan sheet(s), Special Drainage Detail sheet(s), erosion control details and a Storm Water Pollution Prevention Plan (SWPPP).

I. Traffic Control Plan

1. Traffic Control Analysis - The CONSULTANT will design a Traffic Control Plan to move vehicular and pedestrian traffic during the various phases of construction. The design will include construction phasing of roadway ingress and egress to existing property owners and businesses, routing, signing and pavement markings, and detour quantity tabulations. Special consideration

will be given to the construction of the drainage system when developing the construction phases. Positive drainage will be maintained through the phases of construction.

2. Traffic Control Plans - The CONSULTANT will prepare plan sheets, notes, and details as applicable to include, as required, the following: Typical Section sheet(s), General Notes and Construction Sequence sheet(s), Typical Detail sheet(s), Tabulation of Quantities sheet(s), Traffic Control Plan sheet(s), Signing and Pavement Marking sheet(s), Temporary Signalization sheet(s).

J. Railroad Crossing Permit

At the site of the improvements crossing the existing railroad, the CONSULTANT will perform the following services:

1. The CONSULTANT will meet with the CSXT Transportation Company (RAILROAD) and discuss the proposed improvements for the project. In this meeting, the requirements for the crossing will be discussed, including: physical improvements to the track area, necessary signal improvements at the crossing and the fees associated with permitting the crossing.
2. The CONSULTANT will prepare the Railroad Crossing Exhibit, which will detail the extent of the roadway improvements across the railroad, requirements for boring of City-owned utilities across the line and the traffic control required to construct the improvements. CONSULTANT will also prepare the necessary applications and handle the approval process on behalf of the CLIENT.
3. Fees related to the issuance of the railroad crossing permit shall be the responsibility of the CLIENT. This will include reimburseable expenses for the railroad company's planning and design effort, as well as costs that the railroad will incur in constructing the railroad crossing improvements. The CONSULTANT will advise the CLIENT of the required fees and the required time of payment of the fees.
4. The CONSULTANT will work with the RAILROAD to coordinate the schedule for their work at the crossing. Any temporary improvements to the road required as a result of the scheduling of the RAILROAD's work will be incorporated into the final plans for the roadway improvements.

K. Utilities

General: The CONSULTANT will update and verify the following existing and proposed utilities that may influence location and design considerations:

- Overhead - Utility (power, cable & telephone)
- Above ground - Utility poles, fire hydrants, utility manholes and valve boxes, microwave towers, etc.
- Underground water, gas, sanitary sewer, force mains, street lighting cables/conduit, power cables, telephone cables, etc.

The CONSULTANT will be responsible for coordinating the proposed design with the affected utility companies in order to minimize utility conflicts. The CLIENT or individual utility owners will designate the existing utilities within the project limits and assist the utilities during the design phase.

Each utility provider will be responsible for the design of their respective underground utilities for this project, with the exception of irrigation stub-outs and facilities. These designs will be provided to the CONSULTANT by the utility provider or the CLIENT in AutoCAD-compatible format (or a comparable format) for inclusion into the Roadway Plans for this project. The CONSULTANT will be responsible for coordinating with the utility providers for the proposed construction elements such that utility conflicts are minimized or avoided.

1. Coordination with Utility Companies - The CONSULTANT will be responsible for conducting up to ten (10) utility meetings during the course of the project, including a pre-design meeting and meetings to identify and resolve conflicts. Additional meetings, if required, will be performed as

additional services. The existing utilities will be shown on the plan sheets, profile sheets, drainage structure, and cross-section sheets. The purpose of these meetings will be to determine the effects the project has on existing and proposed facilities. This allows the utility representatives to provide input into the development of the roadway plans.

a. Utility Pre-Design Meeting: The CONSULTANT will conduct a meeting with the affected Utility Owners to discuss the utility information collected during the design survey. The purpose of this meeting is to discuss the accuracy of the underground and above ground utility survey, as well as to describe for the utility owners the proposed improvements, project schedule and responsibilities of each party. The CONSULTANT will provide a set of preliminary plans to each utility owner having or proposing new facilities located within the project limits.

b. Utility Design Review Meeting: The CONSULTANT will conduct a Utility Design Review Meeting with the affected Utility Owners at the 60% plan stage. The CONSULTANT will be prepared to discuss drainage, traffic signalization, maintenance of traffic, etc., to the extent that they may have an affect on existing or proposed utility facilities. The intent of this meeting will be to attempt to resolve conflicts between utilities and proposed construction prior to completion of the plans, including utility adjustment details.

c. The CONSULTANT will submit to each Utility Owner the necessary sets of plans for utility coordination and be prepared to provide the project CADD files in electronic format to each Utility Owner upon their request. CONSULTANT will provide the CADD files for the convenience of the Utility owners; CONSULTANT cannot be responsible for the accuracy of the files after they are provided to the Utility owners.

d. The CONSULTANT will, prior to and during design, obtain available data from the Utility Owners that may be needed to determine the actual location and depth of the underground utilities.

e. {Optional Service} City-designed utilities will be accommodated into the contract plans for the project. These lines will be designed by others; CONSULTANT will incorporate their sheets and specifications into the contract documents, along with separate pay items for their work. CONSULTANT will be responsible for addressing city-designed work in the Traffic Control Plan for the project and identifying specific related costs to accommodate the city-designed utilities.

2. Lighting Coordination - The proposed lighting plans, if any, will be the responsibility of others. The CONSULTANT will coordinate the locations of the proposed lighting (if any) with the lighting designers to resolve potential conflicts. The CONSULTANT will meet with the City of Tallahassee to coordinate any lighting requirements for the project. The CONSULTANT will participate in up to four (4) such meetings. CONSULTANT will solicit a Letter of Intent from the City of Tallahassee as to the type and level of lighting that they will install.

3. Prepare Utility Adjustment Plans - The CONSULTANT will prepare Utility Adjustments Plans prior to the 90% submittal. Upon completion of these plans, the CONSULTANT will send one complete set of plans to each utility owner and to the CLIENT.

4. Subsurface Utility Engineering (SUE) - The CONSULTANT will provide SUE services for this project. This will include subsurface location and verification of the horizontal and vertical locations of lines where there are potential conflicts with the proposed improvements. These potential conflict locations may include deep cut areas, storm sewer pipes, mast arm foundations and retaining walls. The CONSULTANT will mark locations on plans where proposed locates will be taken. This will be submitted to the CLIENT for review and comment before work is undertaken.

The location information will be used to make any necessary adjustments to the plans to resolve conflicts. This may include adjustments to the drainage system, roadway alignment, appurtenances; or may require relocation of the utility lines. In the event of the latter, the CONSULTANT will coordinate with the utility owner on the necessary line relocation.

5. Prepare Utility Relocation Schedule - The CONSULTANT will coordinate with the utility owners and develop a schedule for the necessary relocation of utilities. A schedule for the utility relocations will be prepared and agreed to in writing by the affected utility owners.

6. Prepare Utility Relocation Agreements - Utility Relocation Agreements will be prepared by the CONSULTANT on behalf of CLIENT as required.

L. Environmental Services/Permits

1. Wetland Jurisdictional Determination -
Based on preliminary field reconnaissance and coordination with the City of Tallahassee, jurisdictional surface waters are located on the subject property. This task includes coordination with the FDEP and the City of Tallahassee Land Use and Environmental Services (LUES) office in order to obtain a jurisdictional determination. The CONSULTANT will conduct the following tasks:

- Conduct site reconnaissance to field flag the limits of wetlands or surface waters along the project corridor and within proposed pond sites.
- Preparation and submittal of the FDEP formal wetland determination application form and applicable attachments. Note: Limits of the proposed Right of Way will need to be staked prior to site review by FDEP.
- Preparation and submittal of a formal wetland jurisdictional determination to the US Army Corps of Engineers. We will conduct one field meeting with USACE to review the flagged jurisdictional areas. Note: Due to current workloads, USACE may defer the processing of the Wetland JD until a permit application is filed.
- Coordinate with project surveyor to field locate jurisdictional limits.

2. Natural Features Inventory (NFI) and Environmental Impact Assessment (EIA) –
The City of Tallahassee Environmental Management Ordinance (EMO) requires that a Natural Features Inventory (NFI) be prepared. The NFI includes the preparation of an application and a map of the following environmentally sensitive features (if applicable) along the corridor:

- Floodplains
- Wetlands
- Water bodies
- Watercourses
- Topography; including significant (10% to 20%) and severe (over 20%) grades
- Native Forest; including high quality sucessional forest
- Historical and Archaeological Sites
- Listed Species Habitat
- Closed Drainage Basins
- Karst Features
- Canopy Road Locations
- Wells

The map should also show the location and size of impact of any of these features as a result of the proposed project, as well as environmentally sensitive areas that will be preserved. The application package also includes a narrative describing the features along the project corridor, an aerial photograph, and location map. A cultural resource assessment (CRA) is also required as part of the application.

This task includes preparation of the NFI application, maps (NFI map, location map, and aerial), and narrative. The CRA was prepared as part of the PD&E Study and The Department of Historical Resources (DHR) has issued a letter stating that the project is not likely to affect historic or archaeological sites. This information will be used for the NFI submittal.

An Environmental Impact Assessment (EIA) will be prepared. The EIA includes a project narrative, including an analysis of impacts to natural features, the NFI, the project plans, and a mitigation proposal (if required). It is assumed based on preliminary discussions that if mitigation is required for impacts to the surface waters, mitigation can be accomplished in the storm water ponds.

3. Permit Preparation

The CONSULTANT will prepare and submit the Florida Department of Environmental Protection – Wetland Resource Permit, US Army Corps of Engineers Section 404 Dredge and Fill and the City of Tallahassee Environmental Management Permit Applications with required supporting documentation. All required fees will be paid for by the CLIENT. We will attend one pre-application meeting with each agency and will respond to requests for additional information. It is assumed based on information obtained during the PD&E study that listed species will not be impacted as a result of the proposed improvements and as such coordination and permitting with the Florida Fish and Wildlife Conservation (FWC) Commission and the US Fish and Wildlife Service (USFWS) will not be required.

4. Mitigation Plans – Based on discussions with the City during the PD&E study, it is assumed that if mitigation is required, it can be accomplished in the storm water management ponds through littoral planting. The CONSULTANT will identify mitigation requirements for the project work with the project engineer to develop the littoral planting plan and mitigation details. This scope assumes that no other mitigation design will be required.

The following items are not included the CONSULTANT's scope for this project:

- Preparation of mitigation plans and details for selected off-site areas to be used for wetlands impact mitigation.
- Coordination or permitting with USFWS or FWC

5. Contamination Assessments

The purpose of this task to examine potential areas of environmental impacts as identified in the Draft Final Engineering Report for the Tharpe Street Corridor Study. Table 4-5 of the report identified a total of 22 sites that have a potential for environmental impact. These sites were ranked from low to high risk as identified in the preliminary environmental investigation.

The purpose of the Phase II ESA is to collect preliminary soil and groundwater quality data to examine the potential for environmental impacts that may be encountered during construction of the proposed Tharpe Street and examine background water quality in the proposed are of construction. Additional environmental assessment services may be required, depending on the results of this Phase II ESA.

The following presents the tasks for the Phase II ESA.

Task 1 Site Assessment Activities

The CONSULTANT will complete one 8 foot soil boring at one location along the proposed ROW at 17 of the 22 sites identified in the Draft Final Engineering Report. Soil samples will be collected in two foot intervals and screened in the field with an organic vapor analyzer (OVA). One soil and one groundwater sample will be collected at each location. In addition, one groundwater sample will be collected at proposed ponds locations 2, 3, 4, and 5. Soil and water samples will be collected using a Geoprobe. Soil samples will be collected using the Geoprobe Macrocore Sampler. The OVA screening results and visual observations will be used to determine at which depth each soil sample is collected. The groundwater

samples will be collected from near the top of the water table, approximately 20 to 40 feet bls. The groundwater samples will be collected using a 5-foot section of a prepacked Geoprobe well screen.

Soil and groundwater samples will be analyzed for the following parameters:

- Volatile Compounds by EPA Method 8021
- Semi-Volatile Compounds By EPA Method 8270 SIM
- 8 RCRA Metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) Note, filtered and unfiltered groundwater samples will be collected analyzed for metals at each groundwater sample location.
- Total Petroleum Hydrocarbons by the FL-PRO Method

Samples will be collected consistent with the Florida Department of Environmental Protection (FDEP) Standard Operating procedures (SOPs) and analyzed by a laboratory that is a member of the National Environmental Laboratory Accreditation Conference (NELAC).

Task 2 Report Preparation

The CONSULTANT will prepare a summary report on the findings of the Phase II ESA. The report will include the following:

- Summary of site assessment methodology
- Summary of laboratory data
- Maps and figures showing sample locations
- Meetings with regulatory agencies to discuss the results and the impact on development
- Development of Opinion of Probable Cost (OPC) for remediation of environmental impacts during construction
- Discussion of results
- Conclusions and recommendations

A total of 10 draft copies shall be prepared and submitted to the client for review. Upon review, a total of 10 final copies of the report shall be prepared.

Services Not Provided

The following services are not provided under this agreement:

- Collection of additional soil and groundwater samples or additional services not identified in the Scope.
- Site remediation design

M. Signing and Pavement Markings

The CONSULTANT will prepare plan sheets, notes, and details to include the following: Tabulation of Quantities sheet(s), General Note sheet(s), Plan Sheet(s), Guide Sign Detail sheet(s), Sign Cross Section and Layout sheet(s), Special Marking Detail sheet(s) and Metal/Concrete Pole detail(s). No lighted signs are anticipated nor are they included in this work. Signs and pavement marking will be designed in accordance with the Elder Road User policy. The CONSULTANT will plot utilities on the plans where signs that are to have foundations are to be placed.

The CONSULTANT will complete the design of guide signs required for the project. Prior to preparing Guide Sign Worksheets, the CONSULTANT will discuss the location, letter size and messages for the guide signs with the CLIENT and the City of Tallahassee. In addition, the CONSULTANT will be responsible for determining the column size for proposed multi-post signs and present this information in the plans. Approved final guide sign worksheets and plans will be provided to the CLIENT for fabrication

and future installation. Guide sign locations will be shown in the contract plans for information purposes only.

The CONSULTANT will provide Technical Special Provisions for the items of work not covered by the FDOT Standard Specifications, Supplemental Specifications or Recurring Special Provisions.

N. Signalization Plans

At the intersections where signalization becomes the preferred intersection control method or where modifications to existing signals are needed, the CONSULTANT will prepare plan sheets, notes, and details to include the following: Key Sheet, Tabulation of Quantities, General Notes, Plan Sheet(s), mast arm detail(s), and Service Point detail(s) as appropriate. This work will be designed in accordance with City of Tallahassee standards and requirements. All signal installations will be mast arm designs. The CONSULTANT will plot utilities on the plans where signal pole foundations are to be placed. Signal improvements are contemplated along West Tharpe Street at the following locations:

- *At Blountstown Highway* – design of a new signalized intersection.
- *At Mission Road* – design of an upgraded signal installation for the proposed improvements.
- *At Trimble Road* – design of a new signalized intersection.
- *At Devra Drive/San Luis Road* – design of an upgraded signal installation for the proposed improvements.

The CONSULTANT will develop a signal interconnect plan for West Tharpe Street from the new Blountstown Road intersection to Ocala Road.

The CONSULTANT will perform a structural analysis to determine the selection of appropriate mast arms for the signal installations.

The CONSULTANT will provide Technical Special Provisions for items of work not covered by the City of Tallahassee Standard Specifications, Supplemental Specifications or Recurring Special Provisions.

O. Landscape Plans

The CONSULTANT will prepare the contract plan sheets, notes and details to include the following: Tabulation of Quantities sheet(s), Landscape Plan sheet(s), Irrigation Plan and Detail sheet(s), and Landscape Detail sheet(s). The landscape plans will include existing and proposed utility locations, existing billboard locations and associated viewing zone(s), roadway signs and associated viewing angles, and clear zone/horizontal clearance delineations.

Landscape concepts and plans will be developed with the idea of connectivity of the neighborhoods in the vicinity of the project. The Landscape designs will be coordinated with roadway alignments, pedestrian and street level lighting and traffic operations studies and designs such that a context sensitive design is achieved for the overall project, fitting the proposed improvements into the community in a manner that is not intrusive. Landscape designs will address the buffering of the existing and proposed utility boxes along the corridor.

Prior to beginning the development of the landscape plans, the CONSULTANT will discuss the overall landscape/Landscape concept with the CLIENT's appropriate staff. Discussion will include the expected types of plant materials, proposed easements, irrigation requirements and maintenance efforts expected.

It is the responsibility of the CONSULTANT to determine the number and size of landscaped areas that will be required based on the overall project design. In addition, it is the responsibility of the CONSULTANT to ensure compliance with local and State ordinances or requirements governing the placement of plant material in rights of way. The landscape plans must be coordinated with other plans, including roadway, utility, signing and signalization.

Landscape designs, details and plans will be required for the following general locations:

- Stormwater Management Facilities
- Median areas
- Borders adjacent to sidewalks
- Utility boxes (transformers, switching cabinets, etc.)

The CONSULTANT will provide Technical Special Provisions for items of work not covered under FDOT Standard Specifications and CLIENT Specifications.

PART III – PUBLIC INVOLVEMENT

A. Newsletters

CONSULTANT will prepare and print two newsletters throughout the course of the final design including: at 60% and 90% plan completion stages.

B. Citizen Group Meetings

As outlined in the PIP and at the request of the CLIENT, the CONSULTANT shall be available to attend and assist with citizen group meetings in addition to regularly advertised public meetings. Up to six (6) meetings will be conducted.

C. Public Officials

At the request of the CLIENT, CONSULTANT will be available to meet with and brief public officials as needed on the progress of the project. CONSULTANT will not meet independently or separately with any elected or public officials concerning any materials related to this Project. Up to three (3) meetings will be conducted.

D. Partner Participation

At the request of the CLIENT, CONSULTANT will be available to brief partners such as the CLIENT of Tallahassee and the Florida Dept. of Transportation on project updates and encourage partner involvement in public meetings. Up to three (3) meetings will be conducted.

C. Property Owner Coordination

The CONSULTANT will respond to property owner requests for information and discussions related to the project throughout the duration of this contract, as needed. 300 hours has been allotted for this effort.

PART IV – POST-DESIGN SERVICES

A. Bid Phase Services

1. Plan Sales

CONSULTANT will provide one set of plans to the CLIENT for bidding purposes. It will be the CLIENT's responsibility to make the necessary copies for sale to prospective bidders. The Plans will be sold to prospective bidders by the Leon County Purchasing Department.

2. Addenda

CONSULTANT will prepare necessary addenda during the course of the bidding. The Leon County Purchasing Department will be responsible for issuing addenda to the Bidders of Record.

3. Pre-Bid Conference

The CLIENT (through their Purchasing Department) will conduct a Pre-Bid Conference at least one week before the receipt of bids. The CONSULTANT will participate in the conference.

4. Bid Opening

The Leon County Purchasing Department will conduct the bid opening for the project.

5. Bid Tabulation

CONSULTANT will prepare a bid tabulation and will check the bids for any mathematical errors in the bid.

B. Construction Phase Services

1. On-site observation

As requested by the CLIENT, the CONSULTANT will make periodic visits to the site and answer questions regarding the proposed construction. This is not to be considered inspection services.

2. Partnering Sessions

If requested by the CLIENT, the CONSULTANT will arrange for and be a facilitator for partnering sessions during the course of construction. Up to four (4) sessions are budgeted for this effort.

3. RFIs

CONSULTANT will review and answer any RFIs submitted by the contractor or the CLIENT during construction. The CONSULTANT will answer the RFIs within 10 business days of receipt.

4. VECPs

CONSUTLANT will evaluate and render an opinion for any Value Engineering Change Proposal (VECP) submitted by the contractor. The CONSULTANT will provide written evaluations within 20 business days of receipt. Up to tow (2) VECP reviews are budgeted for this effort.

5. Project Closeout

a. At the completion of the work, the CONSULTANT will conduct a final walk-through review and identify any items needing correction. A punch list of these items will be prepared and submitted to the contractor. After contractor addresses the items, the CONSULTANT will verify that the corrections have been appropriately made. A recommendation for final approval will be made.

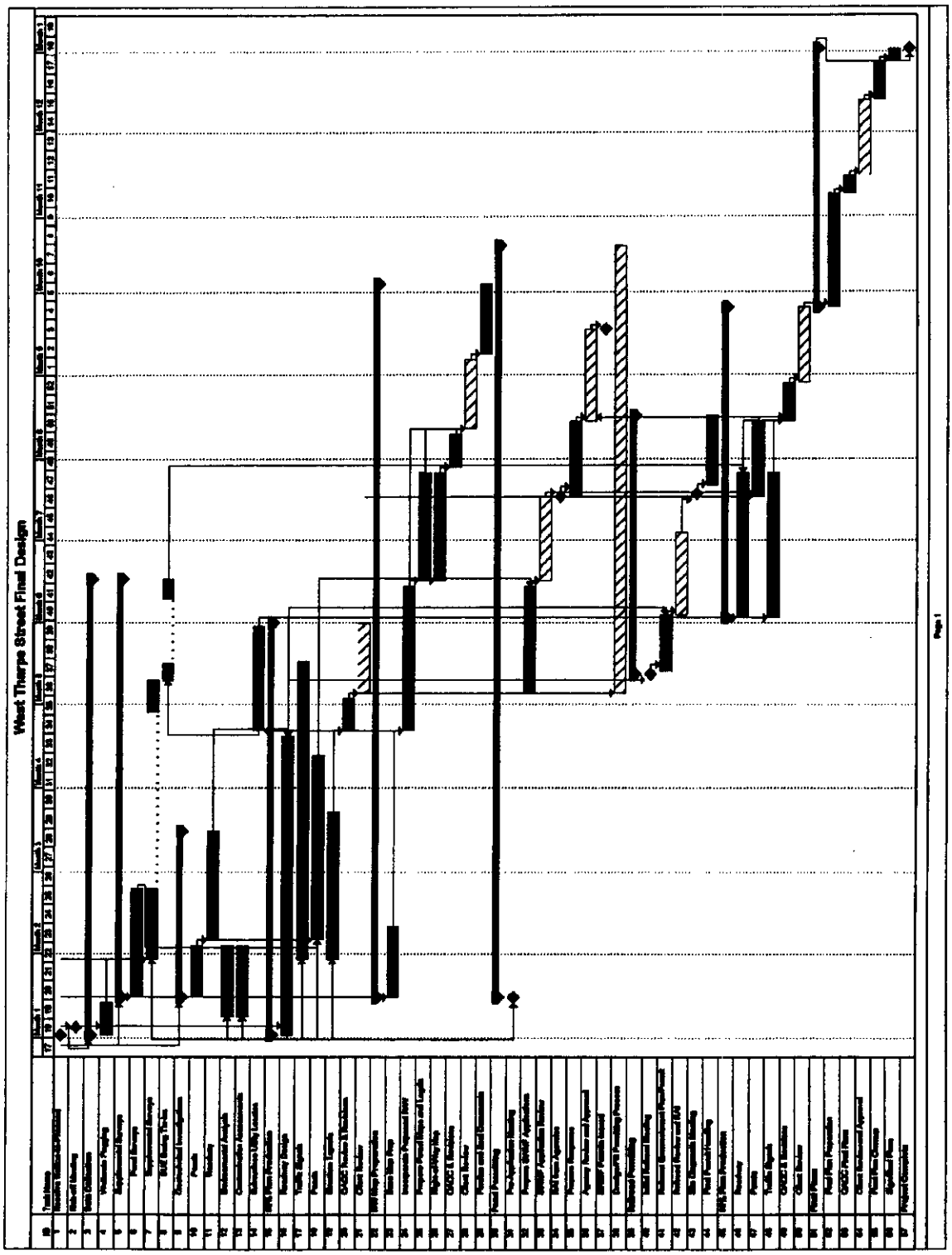
b. The CONSULTANT will prepare Record Drawings of the final work, noting deviations from the design. This work will be signed and sealed by a licensed surveyor.

c. The CONSULTANT will prepare a Compliance Report for the project, as required by the County and the regulating agencies. This work will be signed and sealed by the Engineer of Record.

PART V – SCHEDULE

The CONSULTANT will undertake this work upon receipt of Notice-To-Proceed. Work will be completed according to the following schedules:

A. Roadway Plans



PART VI – MISCELLANEOUS

SECTION I. PROVISIONS FOR WORK

A. Governing Regulations

The services performed by the CONSULTANT will be in compliance with applicable CLIENT, City of Tallahassee and FDOT Standards Guidelines. The current edition, including updates, of the following References and Guidelines will be used in the performance of this work.

1. Leon County Roadway Design Standards
2. Manual of Uniform Minimum Standards for Design, Construction and Maintenance for Streets and Highways (FDOT)
3. FDOT Roadway Traffic and Design Standards
4. FDOT Drainage Manual
5. AASHTO's "A Policy on Geometric Design of Highways and Streets"
6. Florida Manual on Uniform Traffic Studies (MUTS)
7. Manual on Uniform Traffic Control Devices (MUTCD)
8. AASHTO Guide for Bicycle Facilities Design

B. Progress Reporting

The CONSULTANT will provide written progress reports on a monthly basis that describe the work performed on each task. Progress reports will be delivered to the CLIENT concurrently with the monthly invoice.

C. Meetings and Presentations

The CONSULTANT will attend meetings as required by the CLIENT for the purpose of discussing project information, meeting with stakeholders, meetings with outside agencies, etc. These meetings do not include meetings associated with the Public Involvement tasks.

D. Quality Control

The CONSULTANT will be responsible for the professional quality, technical accuracy and coordination of surveys, designs, drawings, specifications and other services furnished by the CONSULTANT under this contract.

The CONSULTANT will provide a Quality Control Plan ten (10) days after the official Notice-to-Proceed that describes the procedures to be utilized to verify, independently check, and review design drawings, specifications, and other documentation prepared as a part of the contract. The CONSULTANT will describe how the checking and review processes are to be documented to verify that the required procedures were followed. The Quality Control Plan may be one utilized by the CONSULTANT as part of their normal operation or it may be one specifically designed for this project. A marked up set of prints from a Quality Control review will be sent in with each phase review submittal. The responsible

Professional Engineer or Professional Surveyor that performed the Quality Control review will sign a statement certifying that the review was conducted.

E. Correspondence

Copies of written correspondence between the CONSULTANT and any party pertaining specifically to this contract will be provided to the CLIENT for their records as a part of the regular monthly report.

F. Submittals

The CONSULTANT will provide copies of the required documents as listed below. These are the anticipated printing requirements for the project. This tabulation will be used for estimating purposes, and the Project Manager will determine the number of copies required prior to each submittal. Five (5) copies (one full size and four half size) will be submitted to the CLIENT and additional copies will be submitted to the regulating agencies as required for review and approval.

Engineering Items:

- 60% Roadway Plans and Calculations
- 90% Roadway Plans and Calculations
- Cost Estimates at 60% and 90% Plans Stages
- Final Roadway Plans (full size) and Calculations
- AutoCAD digital files will be provided on CD-ROM at each submittal
- Presentation Graphics for Public Involvement Meetings

G. Scales

Plans and other documents will be developed at the scales indicated below for the project.

• Sheet Size	24" x 36" (full size) 11"x17" (half size)
• Drainage Maps	1"=200'
• Plan and Profile Sheets	1"=20' H; 1"=5'V
• Cross Section Sheets (100 foot intervals)	1"=10' H; 1"=5'V
• Signing and Marking Plans	1"=20'
• Utility Plans	1"=20'
• Intersection Details	1"=20'

SECTION II ADDITIONAL SERVICES

A. Optional Services

At the CLIENT's option, the CONSULTANT may be requested to provide miscellaneous design services which may include expert witness testimony, plans update and post design services. The fee for these services will be negotiated for a fair, competitive and reasonable cost, considering the scope and complexity of the project(s). A supplemental agreement adding the additional services will be executed at the appropriate time.

B. Payment for Additional Services

Additional services are not included in the contracted fees. Should the CLIENT desire any of these services, CONSULTANT will prepare a fee, scope and schedule for the work at the time the services are requested.

Kimley-Horn
and Associates, Inc.

ATTACHMENT 2

FEE SCHEDULE

West Tharpe Street Final Design

Leon County, Florida

Prepared for:

Leon County Department of Public Works

KIMLEY-HORN AND ASSOCIATES, INC.

Summary of Fees and Charges

PROJECT LABOR	Hours	Lump Sum Totals	Optional or Hourly Totals
Part I - Project Administration	**376**	**$ 49,006.54**	**$ -**
1. Project startup/file creation	52	$ 6,246.56	
2. Kick-off Meeting	28	$ 3,852.62	
3. Subconsultant Contracts	32	$ 4,187.84	
4. Monthly Administration - 12 months	128	$ 15,493.60	
5. Progress Meetings with Client - 6	136	$ 19,225.92	
Part II - Final Roadway Design	**11,551**	**$ 1,251,027.42**	**$ 36,846.88**
B. Surveying and Mapping	192	$ 23,067.56	
C. Geotechnical Exploration	68	$ 9,462.00	
D. Design Analysis	514	$ 54,158.40	
E. Drainage Analysis	256	$ 34,675.68	
F. Structural Plans	806	$ 59,463.32	$ 26,663.44
G. Roadway Plans	3,168	$ 333,177.62	
H. Drainage Plans	452	$ 48,869.84	
I. Traffic Control Plans	1,826	$ 195,459.20	
J. Railroad Crossing Permit	172	$ 20,118.40	
K. Utilities	680	$ 74,464.16	$ 10,183.44
L. Environmental Services/Permits	397	$ 38,781.40	
M. Signing and Pavement Markings	462	$ 48,908.24	
N. Signalization Plans	920	$ 101,002.48	
#REF!	-	$ -	
P. Landscape Plans	1,638	$ 209,419.12	
Part III- Public Involvement	**660**	**$ -**	**$ 79,382.32**
A. Newsletters	186		$ 17,854.72
B. Public Meetings	144		$ 16,611.36
C. Citizen Group Meetings	162		$ 21,937.20
D. Public Officials Coordination	84		$ 11,489.52
E. Partner Participation	84		$ 11,489.52
Part IV - Post-Design Services	**1,170**	**$ -**	**$ 173,020.44**
A. Bid Phase Services	116		$ 12,760.20
B. Construction Phase Services	1,054		$ 160,260.24
SUBTOTAL LABOR FEE:	13,757	$ 1,300,033.96	$ 289,249.64
DIRECT EXPENSES			
Expense Allocation 3.61%		$ 46,931.00	$ 10,442.00
Other Direct Charges - See List		$ 16,200.00	$ 46,092.50
		$ 63,131.00	$ 56,534.50
COMPUTER CHARGES *			
Hourly Rate: $ 15.00			
Hours 3910			
* Based on 100% CADD Labor + 25% Analyst Labo $ 58,650.00		$ 54,240.00	$ 4,410.00
SUBCONSULTANTS			
DDDS, Inc - Surveys, R/W maps and descriptions, As-Builts			$ 253,848.00
CDM, Inc - Pond Design and Permitting		$ 72,135.00	
EGS, Inc. - Geotechnical and Environmental Explorations			$ 127,812.93
TBE Group, Inc. SUE Explorations			$ 72,636.27
		$ 72,135.00	$ 454,297.20
Less unspent geotechnical fees authorized under original agreement			$ 35,936.00
GRAND TOTAL FEES AND CHARGES:	13,757	$1,489,539.96	$768,555.34

Note: Blue italicized text indicates optional or hourly rate charges

Consultant Name: Kimley-Horn and Associates, Inc.

Project: West Tharpe Street Final Design - Leon County, FL

Work Effort and Fee Estimate Table

Project Administration

8/17/06 7:03 PM

work class	Principal		Proj Mngr		Sr Prof		Tech Prof		Analyst		CADD		Clerical		task totals	
PART III - ENGINEERING STUDY AND CONCEPTUAL DESIGN																
1. Project startup/file creation	4	$ 740.00	24	$ 4,167.36		$ -		$ -		$ -		$ -	24	$ 1,339.20	52	$ 6,246.56
2. Kick-off Meeting	4	$ 740.00	8	$ 1,389.12	6	$ 937.68		$ -	6	$ 562.62		$ -	4	$ 223.20	28	$ 3,852.62
3. Subconsultant Contracts	4	$ 740.00	16	$ 2,778.24		$ -		$ -		$ -		$ -	12	$ 669.60	32	$ 4,187.84
4. Monthly Administration - 12 months	8	$ 1,480.00	48	$ 8,334.72		$ -	24	$ 3,000.48		$ -		$ -	48	$ 2,678.40	128	$ 15,493.60
5. Progress Meetings with Client - 6	12	$ 2,220.00	48	$ 8,334.72	32	$ 5,000.96		$ -	32	$ 3,000.64		$ -	12	$ 669.60	136	$ 19,225.92
																$ 130.34
Total Billable Labor															376	$ 49,006.54

Principal	Proj Mngr	Sr Prof	Tech Prof	Analyst	CADD	Clerical
32 $ 5,920.00	144 $ 25,004.16	38 $ 5,938.64	24 $ 3,000.48	38 $ 3,563.26	0 $ -	100 $ 5,580.00
8.5%	38.3%	10.1%	6.4%	10.1%	0.0%	26.6%

ATTACHMENT # 1
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Consultant Name: Kimley-Horn and Associates, Inc.

Project: West Tharpe Street Final Design - Leon County, FL

Work Effort and Fee Estimate Table

Part II - Final Roadway Design

8/17/05 7:03 PM

work class	Principal	Proj Mngr	Sr Prof	Tech Prof	Analyst	CADD	Clerical	task totals
PART II - FINAL ROADWAY DESIGN								
	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0 $ -
B. Surveying and Mapping	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0 $ -
Coordination with Sub - Surveys	$ -	4 $ 694.56	40 $ 6,251.20	$ -	24 $ 2,250.48	$ -	4 $ 223.20	72 $ 9,419.44
Coordination with Sub - Plats	$ -	4 $ 694.56	40 $ 6,251.20	$ -	80 $ 5,626.20	8 $ 629.76	8 $ 446.40	120 $ 13,648.12
								192 $ 23,067.56
C. Geotechnical Exploration	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0 $ -
Coordination with Sub - Roadway	$ -	8 $ 1,389.12	24 $ 3,750.72	$ -	8 $ 750.16	$ -	8 $ 446.40	48 $ 6,336.40
Coordination with Sub - Ponds	$ -	$ -	12 $ 1,875.36	$ -	$ -	$ -	$ -	12 $ 1,875.36
Coordination with Sub - Traffic Signals	$ -	$ -	4 $ 625.12	$ -	$ -	$ -	$ -	4 $ 625.12
Coordination with Sub - Contamination	$ -	$ -	4 $ 625.12	$ -	$ -	$ -	$ -	4 $ 625.12
								68 $ 9,462.00
D. Design Analysis	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0 $ -
Typ Section Development (4)	$ -	2 $ 347.28	8 $ 1,250.24	$ -	16 $ 1,500.32	16 $ 1,259.52	$ -	42 $ 4,357.36
Geometrics	$ -	6 $ 1,041.84	16 $ 2,500.48	24 $ 3,000.48	$ -	60 $ 4,723.20	$ -	106 $ 11,266.00
Pavement Design Package	$ -	2 $ 347.28	4 $ 625.12	32 $ 4,000.64	$ -	$ -	2 $ 111.60	40 $ 5,084.64
Design Docs, Comp Book, Quantities	$ -	4 $ 694.56	8 $ 1,250.24	16 $ 2,000.32	80 $ 7,501.60	80 $ 6,297.60	12 $ 669.60	200 $ 18,413.92
Summary of Pay Items	$ -	$ -	6 $ 937.68	$ -	$ -	16 $ 1,259.52	$ -	22 $ 2,197.20
TSPs & Bid Documents	$ -	4 $ 694.56	24 $ 3,750.72	60 $ 7,501.20	$ -	$ -	16 $ 892.80	104 $ 12,839.28
								514 $ 54,158.40
E. Drainage Analysis	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0 $ -
1-2 Design - Storm water collection system	$ -	16 $ 2,778.24	40 $ 6,251.20	80 $ 10,001.60	16 $ 1,500.32	$ -	$ -	152 $ 20,531.36
3 - Permitting/Coordinate CDM	$ -	16 $ 2,778.24	40 $ 6,251.20	$ -	$ -	$ -	8 $ 446.40	64 $ 9,475.84
Meeting Notes (3)	$ -	4 $ 694.56	8 $ 1,250.24	8 $ 1,000.16	16 $ 1,500.32	$ -	4 $ 223.20	40 $ 4,668.48
								256 $ 34,675.68
F. Structural Plans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0 $ -
Retaining Walls	$ -	8 $ 1,389.12	24 $ 3,750.72	80 $ 10,001.60	120 $ 11,252.40	100 $ 7,872.00	4 $ 223.20	336 $ 34,489.04
Noise Walls	*$ -*	*8 $ 1,389.12*	*24 $ 3,750.72*	*60 $ 7,501.20*	*80 $ 7,501.60*	*80 $ 6,297.60*	*4 $ 223.20*	*256 26663.44*
Special Drainage Structures	$ -	4 $ 694.56	16 $ 2,500.48	24 $ 3,000.48	60 $ 5,626.20	60 $ 4,723.20	4 $ 223.20	168 16768.12
QAQC Structural - Optional	20 $ 3,700.00	2 $ 347.28	$ -	$ -	$ -	$ -	1 $ 55.80	23 4103.08
QAQC Structural	20 $ 3,700.00	2 $ 347.28	$ -	$ -	$ -	$ -	1 $ 55.80	23 $ 4,103.08
								806 $ 86,126.76
G. Roadway Plans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0 $ -
Key Map (1 sheet)	$ -	2 $ 347.28	2 $ 312.56	$ -	$ -	8 $ 629.76	$ -	12 $ 1,289.60
Drainage Map (3 sheets)	$ -	2 $ 347.28	4 $ 625.12	8 $ 1,000.16	16 $ 1,500.32	24 $ 1,889.28	$ -	54 $ 5,362.16
Typical Sections (4 sheets)	$ -	2 $ 347.28	4 $ 625.12	12 $ 1,500.24	$ -	40 $ 3,148.80	$ -	58 $ 5,621.44
Summary of Quantities (1 sheet)	$ -	2 $ 347.28	4 $ 625.12	$ -	16 $ 1,500.32	16 $ 1,259.52	$ -	38 $ 3,732.24
Summary of Drainage Structures (5 sheet)	$ -	4 $ 694.56	8 $ 1,250.24	$ -	24 $ 2,250.48	16 $ 1,259.52	$ -	52 $ 5,454.80
Plan/Profile (40 Sheets)	$ -	100 $ 17,364.00	192 $ 30,005.76	96 $ 12,001.92	384 $ 36,007.68	768 $ 60,456.96	$ -	1540 $ 155,836.32
Intersection Detail (4 - See Note 1)	$ -	16 $ 2,778.24	16 $ 2,500.48	64 $ 8,001.28	$ -	96 $ 7,557.12	$ -	192 $ 20,837.12
Driveway Profiles (16 sheets)	$ -	16 $ 2,778.24	40 $ 6,251.20	$ -	160 $ 15,003.20	80 $ 6,297.60	$ -	296 $ 30,330.24
Special Profiles	$ -	4 $ 694.56	16 $ 2,500.48	$ -	80 $ 7,501.60	60 $ 4,723.20	$ -	160 $ 15,419.84
Soil Data	$ -	2 $ 347.28	$ -	$ -	$ -	8 $ 629.76	$ -	10 $ 977.04

ATTACHMENT # 1 PAGE 30 OF 63

Consultant Name: Kimley-Horn and Associates, Inc.

Project: West Tharpe Street Final Design - Leon County, FL

Work Effort and Fee Estimate Table

Part II - Final Roadway Design

8/17/05 7:03 PM

	work class	Principal		Proj Mngr		Sr Prof		Tech Prof		Analyst		CADD		Clerical		task totals		
54	Cross Sections (say 160)		$ -	24	$ 4,167.36	24	$ 3,750.72	70	$ 8,751.40	70	$ 6,563.90	140	$ 11,020.80		$ -	328	$	34,254.18
55	Misc. Details		$ -	16	$ 2,778.24	8	$ 1,250.24	40	$ 5,000.80	120	$ 11,252.40	80	$ 6,297.60	8	$ 446.40	272	$	27,025.68
56	QA/QC (3 reviews)	120	$ 22,200.00	24	$ 4,167.36		$ -		$ -		$ -		$ -	12	$ 669.60	156	$	27,036.96
57																		
58																3168	$	333,177.62
59																		
60	H. Drainage Plans		$ -		$ -		$ -		$ -		$ -		$ -		$ -	0	$	-
61	*(some items included in Roadway Plans)*		$ -		$ -		$ -		$ -		$ -		$ -		$ -	0	$	-
62	Drainage Structure Sheets		$ -		$ -		$ -		$ -		$ -		$ -		$ -	0	$	-
63	Lateral Ditch & Outfall Plan (2)		$ -	16	$ 2,778.24	16	$ 2,500.48	48	$ 6,000.96	48	$ 4,500.96	64	$ 5,038.08		$ -	192	$	20,818.72
64	Lateral Ditch & Outfall Cross Sections		$ -	6	$ 1,041.84	4	$ 625.12	16	$ 2,000.32	16	$ 1,500.32	32	$ 2,519.04		$ -	74	$	7,686.64
65	*(Retention/Detention plans by CDM)*		$ -	16	$ 2,778.24		$ -		$ -	16	$ 1,500.32		$ -		$ -	32	$	4,278.56
66	Erosion Control Plans/SWPPP		$ -	2	$ 347.28	8	$ 1,250.24		$ -	40	$ 3,750.80	80	$ 6,297.60		$ -	130	$	11,645.92
67	QA/QC (mostly QA for CDM work)	24	$ 4,440.00		$ -		$ -		$ -		$ -		$ -		$ -	24	$	4,440.00
68																		
69																452	$	48,869.84
70																		
71	I. Traffic Control Plans		$ -		$ -		$ -		$ -		$ -		$ -		$ -	0	$	-
72	Traffic Control Analysis		$ -	24	$ 4,167.36	40	$ 6,251.20	80	$ 10,001.60	120	$ 11,252.40		$ -		$ -	264	$	31,672.56
73	Traffic Control Plans		$ -		$ -		$ -		$ -		$ -		$ -		$ -	0	$	-
74	Typical Sections (2)		$ -	8	$ 1,389.12	8	$ 1,250.24		$ -	32	$ 3,000.64	32	$ 2,519.04		$ -	80	$	8,159.04
75	General Notes/Construction Sequence (2)		$ -	4	$ 694.56	4	$ 625.12		$ -	16	$ 1,500.32		$ -	8	$ 446.40	32	$	3,266.40
76	Typical Detail Sheets (2)		$ -	6	$ 1,041.84	8	$ 1,250.24		$ -	24	$ 2,250.48	16	$ 1,259.52		$ -	54	$	5,802.08
77	Tabulation of Quantities (2)		$ -	4	$ 694.56	2	$ 312.56		$ -	16	$ 1,500.32	8	$ 629.76		$ -	30	$	3,137.20
78	Plan Sheets - Dbl Plan 3 Phase (20 sheets)		$ -	100	$ 17,364.00	144	$ 22,504.32		$ -	576	$ 54,011.52	432	$ 34,007.04		$ -	1252	$	127,886.88
79	Misc Sheets (2)		$ -	6	$ 1,041.84	8	$ 1,250.24		$ -	24	$ 2,250.48	24	$ 1,889.28	4	$ 223.20	66	$	6,655.04
80	QA/QC	48	$ 8,880.00		$ -		$ -		$ -		$ -		$ -		$ -	48	$	8,880.00
81																		
82																1826	$	195,459.20
83																		
84	J. Railroad Crossing Permit		$ -		$ -		$ -		$ -		$ -		$ -		$ -	0	$	-
85	Railroad Coordination/JAX Meetings (3)		$ -	12	$ 2,083.68		$ -	8	$ 1,000.16		$ -		$ -	6	$ 334.80	26	$	3,418.64
86	Plan/Detail Sheets (4)		$ -		$ -	8	$ 1,250.24	64	$ 8,001.28	48	$ 4,500.96		$ -	8	$ 446.40	128	$	14,198.88
87	On-site Diagnostic Meeting		$ -	8	$ 1,389.12		$ -	8	$ 1,000.16		$ -		$ -	2	$ 111.60	18	$	2,500.88
88																		
89																172	$	20,118.40
91																		
92	K. Utilities		$ -		$ -		$ -		$ -		$ -		$ -		$ -	0	$	-
93	1 - Utility Coordination Meetings (10)		$ -	80	$ 13,891.20		$ -	80	$ 10,001.60		$ -		$ -	32	$ 1,785.60	192	$	25,678.40
94	1A - Lighting Coordination (4 meetings)		$ -	32	$ 5,556.48	32	$ 5,000.96		$ -		$ -		$ -	8	$ 446.40	72	$	11,003.84
95	*Incorporate City Designed Utilities*		$ -	*4*	$ *694.56*	*4*	$ *625.12*	*24*	$ *3,000.48*	*40*	$ *3,750.80*	*24*	$ *1,689.28*	*4*	$ *223.20*	*100*	$	*10,183.44*
96	2 - Prepare Utility Adjustment Plans		$ -	4	$ 694.56	24	$ 3,750.72	80	$ 10,001.60		$ -	80	$ 6,297.60	8	$ 446.40	196	$	21,190.88
97	3 - SUE Coordination		$ -	8	$ 1,389.12		$ -	16	$ 2,000.32		$ -		$ -	4	$ 223.20	28	$	3,612.64
98	4 - Prepare Utility Relocation Schedule		$ -	4	$ 694.56	24	$ 3,750.72		$ -		$ -		$ -	4	$ 223.20	32	$	4,668.48
99	5 - Prep Utility Relo Agreements		$ -	8	$ 1,389.12	40	$ 6,251.20		$ -		$ -		$ -	12	$ 669.60	60	$	8,309.92
100																		
101																680	$	84,647.60
102																		
103	L. Environmental Services/Permits		$ -		$ -		$ -		$ -		$ -		$ -		$ -	0	$	-
104			$ -		$ -		$ -		$ -		$ -		$ -		$ -			
	1- Wetland Jurisdictional Determination		$ -		$ -	4	$ 625.12	0	$ -	60	$ 5,626.20	9	$ 708.48		$ -	73	$	6,959.80
	Natural Features Inventory and EIA		$ -		$ -	6	$ 937.68		$ -	80	$ 7,501.60	12	$ 944.64		$ -	98	$	9,383.92
	Permit Applications		$ -		$ -	9	$ 1,406.52		$ -	40	$ 3,750.80	18	$ 1,416.96		$ -	67	$	6,574.28

ATTACHMENT # 1 PAGE 31 OF 63

Consultant Name: Kimley-Horn and Associates, Inc.

Project: West Tharpe Street Final Design - Leon County, FL

Work Effort and Fee Estimate Table

Part II - Final Roadway Design

8/17/05 7:03 PM

	work class	Principal		Proj Mngr		Sr Prof		Tech Prof		Analyst		CADD		Clerical		task totals	
108	Stormwater Pollution Prevention Plan		$ -		$ -		$ -		$ -		$ -		$ -		$ -	0	$ -
109	Mitigation Plans		$ -		$ -	2	$ 312.56		$ -	9	$ 843.93	9	$ 708.48		$ -	20	$ 1,864.97
110	Contamination Assessments		$ -		$ -		$ -		$ -		$ -		$ -		$ -	0	$ -
111	Task 1 - Site Assessment		$ -		$ -	2	$ 312.56	10	$ 1,250.20	65	$ 6,095.05	0	$ -	2	$ 111.60	79	$ 7,769.41
112	Task 2 - Report Preparation		$ -		$ -	10	$ 1,562.80	8	$ 1,000.16	30	$ 2,813.10	8	$ 629.76	4	$ 223.20	60	$ 6,229.02
113																	
114																397	$ 38,781.40
115																	
116	M. Signing and Pavement Markings		$ -		$ -		$ -		$ -		$ -		$ -		$ -	0	$ -
117	Tabulation of Quantities		$ -	4	$ 694.56	4	$ 625.12		$ -	24	$ 2,250.48	16	$ 1,259.52		$ -	48	$ 4,829.68
118	General Notes Sheet		$ -	2	$ 347.28	4	$ 625.12		$ -		$ -	8	$ 629.76	4	$ 223.20	18	$ 1,825.36
119	Plan Sheets - DBL Plan (20)		$ -	8	$ 1,389.12	24	$ 3,750.72		$ -	80	$ 7,501.60	60	$ 4,723.20		$ -	172	$ 17,364.64
120	Guide Sign Detail Sheets (4)		$ -	8	$ 1,389.12	8	$ 1,250.24		$ -	32	$ 3,000.64	32	$ 2,519.04		$ -	80	$ 8,159.04
121	Sign Cross Section/Layout (2)		$ -	4	$ 694.56	8	$ 1,250.24		$ -	24	$ 2,250.48	16	$ 1,259.52		$ -	52	$ 5,454.80
122	Special marking Detail Sheets (2)		$ -	2	$ 347.28	4	$ 625.12		$ -	24	$ 2,250.48	16	$ 1,259.52		$ -	46	$ 4,482.40
123	Metal Concrete Pole Details		$ -	2	$ 347.28	4	$ 625.12		$ -	8	$ 750.16	8	$ 629.76		$ -	22	$ 2,352.32
124	QAQC	24	$ 4,440.00		$ -		$ -		$ -		$ -		$ -		$ -	24	$ 4,440.00
125																	
126																462	$ 48,908.24
127																	
128	N. Signalization Plans		$ -		$ -		$ -		$ -		$ -		$ -		$ -	0	$ -
129	Plan sheets	4	$ 740.00	10	$ 1,736.40	120	$ 18,753.60		$ -	240	$ 22,504.80	120	$ 9,446.40	20	$ 1,116.00	514	$ 54,297.20
130	Structural Analysis		$ -		$ -	60	$ 9,376.80		$ -	120	$ 11,252.40		$ -	10	$ 558.00	190	$ 21,187.20
131	Railraod Coordination	4	$ 740.00	10	$ 1,736.40	60	$ 9,376.80		$ -	20	$ 1,875.40		$ -		$ -	94	$ 13,728.60
132	Interconnect Plans		$ -	2	$ 347.28	20	$ 3,125.60		$ -	60	$ 5,626.20	20	$ 1,574.40	20	$ 1,116.00	122	$ 11,789.48
133																	
134																920	$ 101,002.48
135																	
136																	
137																	
138	P. Landscape Plans		$ -		$ -		$ -		$ -		$ -		$ -		$ -	0	$ -
139	Base Information Review/Design Team Coor	16	$ 2,960.00	40	$ 6,945.60		$ -	40	$ 5,000.80	40	$ 3,750.80		$ -	16	$ 892.80	152	$ 19,550.00
140	Construction Plans from 30% - 60%	20	$ 3,700.00	80	$ 13,891.20		$ -	300	$ 37,506.00	140	$ 13,127.80		$ -	16	$ 892.80	556	$ 69,117.80
141	Construction Plans To 60% - 90%	16	$ 2,960.00	80	$ 13,891.20		$ -	250	$ 31,255.00	120	$ 11,252.40		$ -	16	$ 892.80	482	$ 60,251.40
142	Construction Plans To 90% - 100%	16	$ 2,960.00	80	$ 13,891.20		$ -	140	$ 17,502.80	80	$ 7,501.60		$ -	16	$ 892.80	332	$ 42,748.40
143	Additional Meetings	24	$ 4,440.00	60	$ 10,418.40		$ -	16	$ 2,000.32		$ -		$ -	16	$ 892.80	116	$ 17,751.52
144																	
145																1638	$ 209,419.12
146																	
147																	
148																	
149																	
150																	
151	Total Billable Labor															11551	$ 1,287,874.30

Principal	Proj Mngr	Sr Prof	Tech Prof	Analyst	CADD	Clerical
358 $ 65,860.00	1062 $ 182,689.28	1383 $ 216,135.24	1862 $ 232,767.24	3662 $ 343,385.74	2900 $ 226,288.00	336 $ 18,748.80
3.1%	9.1%	12.0%	16.1%	######	25.1%	2.9%

Notes:

1 Blountstown, Mission, Trimble, Devra/San Luis

ATTACHMENT # 1 PAGE 32 OF 63

Consultant Name: Kimley-Horn and Associates, Inc.

Project: West Tharpe Street Final Design - Leon County, FL

Work Effort and Fee Estimate Table

Part III - Public Involvement

8/17/05 7:03 PM

work class	Principal		Proj Mngr		Sr Prof		Tech Prof		Analyst		CADD		Clerical		task totals	
Part V - Miscellaneous																
A. Newsletters		$ -		$ -		$ -		$ -		$ -		$ -		$ -	0	$ -
Prepare Newsletters (2)		$ -	8	$ 1,389.12		$ -	48	$ 6,000.96		$ -	72	$ 5,667.84	16	$ 892.80	144	$ 13,950.72
Mailing Newsletters (2)	2	$ 370.00	4	$ 694.56		$ -	12	$ 1,500.24		$ -		$ -	24	$ 1,339.20	42	$ 3,904.00
															186	$ 17,854.72
B. Public Meetings		$ -		$ -		$ -		$ -		$ -		$ -		$ -	0	$ -
Prepare Meeting Materials (handouts...)(2)	8	$ 1,480.00	8	$ 1,389.12		$ -	24	$ 3,000.48		$ -	16	$ 1,259.52	24	$ 1,339.20	80	$ 8,468.32
Conduct Meetings (2)		$ -	16	$ 2,778.24		$ -	16	$ 2,000.32		$ -		$ -	8	$ 446.40	40	$ 5,224.96
Meeting Summary (2)		$ -	4	$ 694.56		$ -	16	$ 2,000.32		$ -		$ -	4	$ 223.20	24	$ 2,918.08
															144	$ 16,611.36
C. Citizen Group Meetings		$ -		$ -		$ -		$ -		$ -		$ -		$ -	0	$ -
Participate in Meetings (6)	12	$ 2,220.00	48	$ 8,334.72		$ -	48	$ 6,000.96		$ -		$ -	12	$ 669.60	120	$ 17,225.28
Meeting Notes (3)		$ -	6	$ 1,041.84		$ -	24	$ 3,000.48		$ -		$ -	12	$ 669.60	42	$ 4,711.92
															162	$ 21,937.20
D. Public Officials Coordination		$ -		$ -		$ -		$ -		$ -		$ -		$ -	0	$ -
Participate in Meetings (3)	6	$ 1,110.00	24	$ 4,167.36		$ -	24	$ 3,000.48		$ -		$ -	6	$ 334.80	60	$ 8,612.64
Meeting Notes (3)		$ -	6	$ 1,041.84		$ -	12	$ 1,500.24		$ -		$ -	6	$ 334.80	24	$ 2,876.88
															84	$ 11,489.52
E. Partner Participation		$ -		$ -		$ -		$ -		$ -		$ -		$ -	0	$ -
Participate in Meetings (3)	6	$ 1,110.00	24	$ 4,167.36		$ -	24	$ 3,000.48		$ -		$ -	6	$ 334.80	60	$ 8,612.64
Meeting Notes (3)		$ -	6	$ 1,041.84		$ -	12	$ 1,500.24		$ -		$ -	6	$ 334.80	24	$ 2,876.88
															84	$ 11,489.52
Total Billable Labor															660	$ 79,382.32

Principal		Proj Mngr		Sr Prof		Tech Prof		Analyst		CADD		Clerical	
34	$ 6,290.00	154	$ 26,740.56	0	$ -	260	$ 32,506.20	0	$ -	88	$ 6,927.36	124	$ 6,919.20
5.2%		23.3%		0.0%		39.4%		0.0%		13.3%		18.8%	

Notes:

ATTACHMENT # 1
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Consultant Name: Kimley-Horn and Associates, Inc.

Project: West Tharpe Street Final Design - Leon County, FL

Work Effort and Fee Estimate Table

Part III - Public Involvement

8/17/05 7:03 PM

work class	Principal		Proj Mngr		Sr Prof		Tech Prof		Analyst		CADD		Clerical		task totals	
Part V - Miscellaneous																
A. Bid Phase Services																
1. Plan Sales		$ -	2	$ 347.28		$ -		$ -		$ -	4	$ 314.88	12	$ 669.60	18	$ 1,331.76
2. Addenda		$ -	4	$ 694.56	8	$ 1,250.24	16	$ 2,000.32	8	$ 750.16	8	$ 629.76	8	$ 446.40	52	$ 5,771.44
3. Pre-Bid Conference		$ -	8	$ 1,389.12		$ -	8	$ 1,000.16		$ -		$ -		$ -	16	$ 2,389.28
4. Bid Opening		$ -	8	$ 1,389.12		$ -		$ -		$ -		$ -	2	$ 111.60	10	$ 1,500.72
5. Bid Evaluation		$ -	2	$ 347.28		$ -	6	$ 750.12		$ -		$ -	12	$ 669.60	20	$ 1,767.00
															116	$ 12,760.20
B. Construction Phase Services																
1. On-site Observation (8 hr/week - 24 mo)		$ -		$ -	832	$ 130,024.96		$ -		$ -		$ -		$ -	832	$ 130,024.96
2. Partnering Sessions (4)		$ -	32	$ 5,556.48		$ -	16	$ 2,000.32		$ -		$ -	8	$ 446.40	56	$ 8,003.20
3. RFIs		$ -	8	$ 1,389.12	8	$ 1,250.24	24	$ 3,000.48		$ -		$ -	8	$ 446.40	48	$ 6,086.24
4. VECPs (2)		$ -	16	$ 2,778.24	16	$ 2,500.48	24	$ 3,000.48		$ -		$ -	8	$ 446.40	64	$ 8,725.60
5. Project Closeout		$ -		$ -		$ -		$ -		$ -		$ -		$ -	0	$ -
a. Final Walk-through		$ -	24	$ 4,167.36		$ -	16	$ 2,000.32		$ -		$ -	8	$ 446.40	48	$ 6,614.08
b. As-Built Certification		$ -	4	$ 694.56		$ -		$ -		$ -		$ -	2	$ 111.60	6	$ 806.16
															1054	$ 160,260.24
Total Billable Labor															1170	$ 173,020.44

Principal	Proj Mngr	Sr Prof	Tech Prof	Analyst	CADD	Clerical
0 $ -	108 $ 16,753.12	864 $ 135,025.92	110 $ 13,752.20	8 $ 750.16	12 $ 944.64	68 $ 3,794.40
0.0%	9.2%	73.8%	9.4%	0.7%	1.0%	5.8%

Notes:

ATTACHMENT # 1
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Consultant Name: **Kimley-Horn and Associates, Inc.**

SUMMARY OF DIRECT EXPENSES

EXPENSE ITEM	UNIT	COST/UNIT	NUMBER OF UNITS	EXPENSE COST
PROJECT ADMINISTRATION				
TRAVEL TO CLIENT MEETINGS (20)				
Mileage to TLH	EA	$ 160.00	20	$ 3,200.00
Subsistence (Per Diem for O/T travel)	EA	$ 38.00	30	$ 1,140.00
SHIPPING - EXPRESS SERVICES	MO	$ 100.00	36	$ 3,600.00
SUBTOTAL:			**SUBTOTAL:**	**$ 7,940.00**
FIELD AND AGENCY VISITS				
TRAVEL TO SITE/OFFICES				
Mileage to TLH	EA	$ 160.00	20	$ 3,200.00
Subsistence (Per Diem for O/T travel)	EA	$ 38.00	20	$ 760.00
SUBTOTAL:				**$ 3,960.00**
PUBLIC INVOLVEMENT				
PUBIC MEETINGS				
Materials and copies	*"Say"*			*$ 500.00*
Mileage	*EA*	*$ 160.00*	*2*	*$ 320.00*
Subsistence (Per Diem for evening O/T travel)	*EA*	*$ 38.00*	*4*	*$ 152.00*
SUBTOTAL:			***SUBTOTAL:***	***$ 972.00***
PRINTING FOR PLAN REVIEW				
Meeting Notes (3)				
30% PLANS REPRODUCTION (12 sets)	"Say"			$ 600.00
60% PLANS REPRODUCTION (12 sets)	"Say"			$ 1,000.00
90% PLANS REPRODUCTION (12 sets)	"Say"			$ 1,200.00
100% PLANS REPRODUCTION (20 sets)	"Say"			$ 1,500.00
SUBTOTAL:			**SUBTOTAL:**	**$ 4,300.00**
OTHER ITEMS				
Outside Environmental Expenses (Lab fees, etc)				*$ 35,120.50*
Supplemental Traffic Counts				*$ 10,000.00*
			SUBTOTAL:	***$ 45,120.50***
GRAND TOTAL:				$ 62,292.50

Consultant Name: **Kimley-Horn and Associates, Inc.**

		Contract Rate	
1	Principal	$ 185.00	
2	Project Manager	$ 173.64	
3	Senior Professional	$ 156.28	
4	Technical Professional	$ 125.02	
5	Analyst	$ 93.77	
6	CADD Technician	$ 78.72	
7	Prof. Surveyor		
8	Office Surveyor		
9	3-Man Crew		
10	Clerical/Admin	$ 55.80	

Kimley-Horn
and Associates, Inc.

ATTACHMENT 3

SUBCONSULTANT FEE PROPOSAL

For

Diversified Design and Drafting Services, Inc.

West Tharpe Street Final Design

Leon County, Florida

Prepared for:

Leon County Department of Public Works

June 27, 2005

Mr. John M. McDowell, PE
Kimley-Horn and Associates, Inc.
8711 Perimeter Park Blvd, Suite 4
Jacksonville, FL 32216
Telephone 904-998-2084
Fax 904-998-2197

Re: Tharpe Street Surveying and Mapping Proposal **(Revised)**

Mr. McDowell:

Diversified Design & Drafting Services, Inc. (3DS) is pleased to offer this letter of proposal for Tharpe Street surveying and mapping services.

Provide field crew and office support for miscellaneous topographic surveys as needed to support the final design. The intent of this task is to collect additional topographic data that was not gathered in the original effort approximately 2.5 years ago. The hours and fees listed below are based solely upon 4 weeks (160 hours) of field crew time along with the necessary office support. This fee may increase or decrease based upon the amount of work actually performed *(Part II – Final Roadway Design, 1. Design Survey, (a))*;

160 hours of 3-man field crew @ $97.50/hour	$15,600.00
60 hours of Survey Technician @ $55.00/hour	$ 3,300.00
40 hours of PSM @ $108.00/hour	$ 4,320.00
Direct Expenses	$ 220.00
Total for Task	**$ 23,440.00**

Recover/ Re-establish the centerline alignment as utilized during the previously completed control survey. *(Part II – Final Roadway Design, 1. Design Survey, (b))*;

48 hours of 4-man field crew @ $113.50/hour	$ 5,448.00
12 hours of Survey Technician @ $55.00/hour	$ 660.00
6 hours of PSM @ $108.00/hour	$ 648.00
Direct Expenses	$ 244.00
Total for Task	**$ 7,000.00**

Establish bench marks along the corridor (1,000 feet intervals). *(Part II – Final Roadway Design, 1. Design Survey, (c))*;

8 hours of 4-man field crew @ $113.50/hour	$ 908.00
3 hours of Survey Technician @ $55.00/hour	$ 165.00
2 hours of PSM @ $108.00/hour	$ 216.00
Direct Expenses	$ 180.00
Total for Task	**$ 1,469.00**

Provide sketch of description for 120 acquisition parcels. Various easements will be considered as parcels. Title work shall be provided by an outside firm. These parcels shall be created after acceptance of 60% design plans. Additional parcels (above 120) or revisions to previously submitted parcels will be charged as "time and materials", see attached fee schedule *(Part II – Final Roadway Design, 3. Legal Descriptions)*;

480 hours of Survey Technician @ $55.00/hour	$26,400.00
120 hours of PSM @ $108.00/hour	$12,960.00
Direct Expenses	$ 300.00
Total for Task	**$39,660.00**

(*this fee does not include title search)

Complete right-of-way maps as required for final design submittal (contingent upon the County's approval of the previously submitted control survey and 30% right-of-way map). Title work shall be provided by others (see explanation below). This task shall begin after the title search is completed of all properties within the project corridor including pond sites. *(Part II – Final Roadway Design, 4. Rights-of-Way and Easement Determination)*;

572 hours of Survey Technician @ $55.00/hour	$31,460.00
136 hours of PSM @ $108.00/hour	$14,688.00
Direct Expenses	$ 312.00
Total for Task	**$46,460.00**

Provide a topographic and boundary survey of four pond sites. This effort will also include the location of wetland flags as established by others and topographic data along the outfall paths for the two remote ponds. Additionally, trees (12" diameter and up and dogwoods 8" diameter and up) will be located. Please refer to "Conceptual Roadway Plans West Tharpe Street", 30% Plans, Ponds 1, 2, 3, and 4 respectively. *(Part II – Final Roadway Design, 5. Pond Site Surveys)*;

148 hours of 4-man field crew @ $113.50/hour	$16,798.00
80 hours of Survey Technician @ $55.00/hour	$ 4,400.00
36 hours of PSM @ $108.00/hour	$ 3,888.00
Direct Expenses	$ 224.00
Total for Task	**$ 25,310.00**

Convert the topo and DTM files (Microstation format) into AutoCAD format suitable for the County;

210 hours of Survey Technician @ $55.00/hour	$11,550.00
50 hours of PSM @ $108.00/hour	$ 5,400.00
Direct Expenses	$ 230.00
Total for Task	**$ 17,180.00**

Title search for the various parcels (including easement parcels) as performed by an outside company. This fee is strictly an estimate and is based upon similar projects completed recently within Leon County. This estimate is based upon 120 parcels and includes the initial 30 year search, one update search and a 10% coordination fee;

$467.50 x 120 parcels	**$ 56,100.00**

Miscellaneous supplemental, provide survey support for utility locates, soil boring locates, and traffic signal stake-out. The hours and fees listed below are based solely upon 2 weeks (80 hours) of field crew time along with the necessary office support. This fee may increase or decrease based upon the amount of work actually performed

80 hours of 3-man field crew @ $97.50/hour	$ 7,800.00
30 hours of Survey Technician @ $55.00/hour	$ 1,650.00
20 hours of PSM @ $108.00/hour	$ 2,160.00
Direct Expenses	$ 110.00
Total for Task	**$ 11,722.00**

Post construction as-built (CEI), check cross-sections (300' interval)

160 hours of 4-man field crew @ $113.50/hour	$ 18,160.00
57 hours of Survey Technician @ $55.00/hour	$ 3,135.00
39 hours of PSM @ $108.00/hour	$ 4,212.00
Total for Task	**$ 25,507.00**
Total Lump Sum Fee	**$253,848.00**

The above scope does not include all tasks listed within the previously referenced document "Part II – Final Roadway Design" (such as, but not limited to, the supplemental tasks described within "B. Surveying and Mapping Services"). However, at your request we would enjoy the opportunity to provide a proposal outlining any additional items. Please feel free to call if you have any questions or comments.

Sincerely,

Michael W. O'Neal, PSM
Project Manager

Kimley-Horn
and Associates, Inc.

ATTACHMENT 4

SUBCONSULTANT FEE PROPOSAL

For

CDM, Inc.

West Tharpe Street Final Design

Leon County, Florida

Prepared for:

Leon County Department of Public Works

Scope of Services

West Tharpe Street Final Design
Leon County, Florida

Kimley-Horn & Associates, Inc.
June 2005

Background

In December 2001, Camp Dresser & McKee Inc. (CDM) teamed with Kimley-Horn & Associates, Inc. (KHA) on the West Tharpe Street Corridor Study (Proposal No. BC-12-11-01-07). This corridor study was intended to evaluate the widening of Tharpe Street between Ocala Road and Capital Circle from a two-lane undivided rural road section with swale collection and treatment system to a four-lane divided urban road section with a storm sewer collection system and ponds treatment system. All conveyance and treatment are currently performed within the existing right-of-way.

CDM joined the team because of our previous experience in the stormwater basin (Lake Munson Basin). CDM developed a calibrated stormwater management model utilizing the Environmental Protection Agency's Storm Water Management Model (SWMM) for the Lake Munson Basin. This model has been used for the successful permitting, construction and planning of several large improvements within the basin (Lake Munson Restoration Project, Solid Waste Transfer Station, and the Gum Swamp Restoration Project).

During the Corridor Study, CDM provided professional services for the analysis of the stormwater components of the project. During this analysis, the previously developed existing conditions model was updated, and four independent stormwater management facilities (SWMFs) were sited and analyzed conceptually. These four facilities have been presented to the public, and included in the 30% plans for Tharpe Street that were prepared by KHA.

Upon completion of the corridor study in January 2005, the project team will proceed forward with the final design of the conceptual plans developed during the initial phase of the project. This scope of services is being provided to cover professional services related to this design, which will include SWMF design (collection and conveyance from the roadway will be design by others), stormwater modeling and environmental permitting assistance.

Scope of Services

The tasks identified in the remainder of this scope of services include only those efforts which will be required to complete the design of the four stormwater management facilities included in the 30% conceptual roadway plans prepared by KHA (October 2004). Services for work outside these areas are not included in these services.

Task 1 – Construction Plan Survey (By Others)

KHA will acquire the services of a professional land surveyor to prepare a detailed topographic survey of the four SWMFs. The surveyor will provide a full Digital Terrain Model (DTM) of

the area which will be based on the State Plane Coordinate System. These services will include the following:

- A topographic survey of the four SWMFs. These sites include the parcel located immediately south of Ardaman and Associates and Harrell Roofing, the parcel at the corner of Blountstown Highway and Tharpe Street, the Mission-Trimble property and the two parcels at the northwest corner of Ocala Road and Tharpe Street.
- Establish benchmarks throughout the project in accordance with Leon County and/or FDOT procedures.
- Locate any existing utilities within the limits of the previously described parcels. Coordinate with known utility owners for approximate locations and obtain Sunshine One Call tickets for marking the corridors. Underground utilities shall be located horizontally and an approximate depth noted, if available. Vertical locates are not anticipated. Should vertical locates become necessary, a supplemental proposal will be submitted upon request.
- Provide a complete boundary survey for the parcels related to the SWMFs.

Deliverables to be included under this task include one set of signed and sealed originals and one electronic copy of the site plan survey. These documents are to be provided in AutoCAD 2002 (.dwg) format.

Task 2 – Geotechnical Investigation (By Others)

KHA will acquire the services of a professional engineer to complete the geotechnical investigation of the four SWMF sites. These services will include the subsurface investigation to assess conditions as they relate to the proposed construction of these facilities. These efforts will include six 20-feet deep auger borings at locations previously identified and four (one at each SWMFs) double-ring infiltrometer tests completed near the proposed bottom of each of the potential pond sites to report the anticipated percolation rate of the site. Representative samples of the subsurface conditions found at the sites will be returned to the laboratory and tested for various engineering classifications.

A written report will be prepared documenting the findings of this geotechnical analysis. At a minimum, this report will include a description of the subsurface soil and groundwater conditions encountered, evaluation of seasonal high groundwater, earthwork recommendations, discussion of the general infiltration characteristics of the near surface soils, including evaluation of possible "confining layers" revealed by the borings, and discussion and possible remedies of any problematic conditions encountered.

Task 3 – Wetland Determination (By Others)

KHA will acquire the services of a certified wetland scientist to provide the determination of the limits of the existing jurisdictional wetlands within the limits of the proposed SWMF sites. This will include field location of the existing jurisdictional areas and meeting with the appropriate regulatory agencies—the Florida Department of Environmental Protection (FDEP) and the Army Corps of Engineers (ACOE)—to get agreement on the located limits. Once these jurisdictional boundaries have been determined and flagged in the field, they will be located and included on the construction plan survey by the surveyor.

Task 4 – Stormwater Modeling

CDM will use the previously developed stormwater management model (EPA-SWMM version 4.4g) to perform the pre- and post-conditions stormwater modeling analysis for the hydrology and hydraulics of the corridor. For design purposes, updates to this model will be limited to stage/area relationships for each of the four proposed SWMFs, control structures for each of the facilities, loading of inflow hydrographs from the roadway improvements (to be provided by KHA) and land use updates for the proposed impervious area of the widened road cross section. The model results from this analysis will be used to assist with design of the SWMFs associated with the project, as well as to provide backup documentation for the permitting included in this scope of work for state and local regulatory agencies.

This analysis will include simulation of the mean annual, 25- and 100-year critical duration (8-hour duration, as determined in previous studies completed by CDM) design storm events for the existing (pre-) and proposed (post-) hydraulic conditions.

Additionally, CDM will provide assistance with the design of the cross drain located at STA 184+50 between Trimble Road and Mary Ellen Drive/Valley Green Drive. According to preliminary calculations a double 5-ft x 8-ft concrete box culvert will be required at this location KHA will be responsible for the design of the crossing and the preparation of the construction documents for these improvements. CDM will provide modeling assistance for this crossing to accompany the permit applications for the respective regulatory agencies.

Task 5 – Stormwater Design

CDM will perform design services for the four SWMFs associated with the West Tharpe Street Corridor. This design will be limited to the SWMFs only, and will not include the conveyance system for the roadway improvements, which is to be completed by KHA. The final configuration and location of the SWMFs will be determined by the construction plan survey collected (Task 1), the geotechnical data collected (Task 2), the pre- and post-conditions analysis (Task 4), and the applicable stormwater regulations.

Plan sheets, notes, and details which will be needed for the construction of the SWMFs will be included in the construction documents. This will include plan view and cross sections of the four facilities, erosion control, and pond details. It is anticipated that two 11-inch x 17-inch sheets will be needed for each SWMF.

It is anticipated that FDOT standards and specifications will be used for this project. CDM will provide Technical Provisions (specifications) for items included in the SWMF that are not covered under the FDOT specifications. These documents will be submitted for review at the 90% and 100% completion milestones.

CDM will provide these construction plan sheets to KHA for incorporation into the Construction Plan Set. These documents will be provided at the 60%, 90% and 100% completion milestones.

Task 6 – Permitting

CDM will complete the environmental permits required by state and local regulatory agencies for the stormwater components of this project. For budgeting purposes, the following permits are included with this scope of services:

- Joint Application for Works in Waters of the State – This application, typically known as a dredge and fill permit, will be completed for joint review of the project by the ACOE and the FDEP. This permit application will be used to cover construction to be completed within the limits of the jurisdictional wetlands identified under Task 3.
- FDEP General Stormwater Permit – if the aforementioned Joint Application for Works in the Waters of the State is not required, CDM will complete this permit for submittal to the FDEP. This permit application will be used to cover the construction of the four SWMFs included in this scope of services.
- Environmental Management Permit Application (EMP) – This application will be completed and submitted to the City of Tallahassee Growth Management Department to cover the stormwater related issues pertaining to the project. CDM will be responsible for the issues relating to the four SWMFs.
- CDM will prepare and submit the required as-built certifications to the local agencies for the SWMFs (as-built survey to be provided by others).

Engineering fees for permitting is based on one pre-application meeting with each regulatory agencies and responses to requests for additional information (RAI). The County will be responsible for the payment of applicable permit fees.

Task 7 – Meetings

Subtask 7.1 Public Participation

To provide the community with opportunities for input into the project, CDM will attend both formal and informal meetings for the project. It is anticipated that two formal public meetings will be conducted at certain milestones of project completion.

Subtask 7.2 Project Coordination Meetings

CDM will participate in a project kick-off meeting for the project with Leon County and the project team. In addition, CDM has budgeted for participation in up to ten project coordination meetings and up to six field visits with KHA, utilities companies, the County, sub-consultants or contractor during construction. These coordination meetings have been budgeted for coordination during the design phase of this project.

Task 8 – Landscape Design (Not Budgeted)

Landscape design services are not anticipated for this project. If these services are needed, a supplemental proposal can be provided if requested by the County.

Schedule

CDM will begin work on this project following the project kick-off meeting. A project schedule will be submitted to KHA following the project kick-off meeting, and will be developed according to the overall project schedule. In addition, this project schedule will be updated as appropriate and submitted to KHA periodically.

Deliverables

Project deliverables will be submitted to the KHA at various project milestones. These submittals include the following:

- Preliminary Plans - These submittals will occur at approximately the 60% and 90% levels of project completion. The 60% submittal will include the incorporation of the completed field survey and geotechnical investigation (to be provided by KHA). In addition, this submittal will also include preliminary drawings of the proposed SWMFs. The 90% submittal will include the construction plan sheets for the SWMFs that will be submitted with the permit applications as outlined in Task 6. These submittals will include four sets of the construction plan sheets for the SWMFs (11-inch x 17-inch), and a construction cost estimate for the facilities.
- Final Plans - This submittal will occur at the 100% level of project completion. This submittal will include one full-size (22-inch x 34-inch) signed and sealed set of the SWMFs construction plans, three half-size sets of the SWMF construction plans, one copy of the final CAD files with documentation, a probable construction cost estimate, and one copy of the Technical Provisions (supplemental specifications) for the project.
- Permit Applications - This submittal will include the documents submitted for the associated environmental permits (covered in Task 6). Deliverables included in this submittal are one file copy of permit application packages.

Compensation

CDM will perform these services for a lump sum fee of $72,135 which includes CDM labor, and other direct costs. A budget of these fees has been included as **Attachment A.**

CAMP DRESSER & McKEE INC.	Kimley-Horn and Associates, Inc.
Charles E. Cook, P.E. Vice President	Richard R. Barr Vice President
Date	Date

Attachment A
Leon County, Florida
West Tharpe Street Final Design
Cost Buildup
June 2005

Task No.	Description	Officer/ Director $170 Hrs.	Principal/ Assoc. $150 Hrs.	Senior Professional $120 Hrs	Project Engineer $100 Hrs	Staff Engineer $80 Hrs.	Tech./ Drafter $80 Hrs	Financial/ Clerical $55 Hrs.	Total Hours Hrs.	Total Labor $	ODCs $
1	**Construction Plan Survey**										
	Construction Plan Survey	0	0	0	0	0	0	0	0	$0	$0
2	**Geotechnical Investigation**										
	Geotechnical Investigation	0	0	0	0	0	0	0	0	$0	$0
3	**Wetland Determination**										
	Wetland Determination	0	0	0	0	0	0	0	0	$0	$0
4	**Stormwater Modeling**										
	Stormwater Modeling	2	5	11	64	14	11	8	115	$11,250	$563
5	**Stormwater Design**										
	60% Submittal	0	7	11	25	18	46	10	117	$10,540	$527
	90% Submittal	4	6	14	28	20	37	10	119	$11,170	$559
	100% Submittal	2	4	6	20	10	31	8	81	$7,380	$369
6	**Permitting**										
	Joint Application/General Stormwater	1	10	20	26	15	9	17	98	$9,525	$476
	COT - EMP	1	10	20	26	18	9	15	99	$9,655	$483
7	**Meetings**										
	Public Participation	2	2	8	4	0	0	4	20	$2,220	$111
	Project Coordination Meetings	2	20	20	10	0	0	4	56	$6,960	$348
8	**Landscape Design**										
	Landscape Design	0	0	0	0	0	0	0	0	$0	$0
	Totals	**14**	**64**	**110**	**203**	**95**	**143**	**76**	**705**	**$68,700**	**$3,435**

Summary	
Total Labor	$68,700
Other Direct Costs (5%)	$3,435
Outside Professional Costs	$0
Total Project Cost	**$72,135**

Kimley-Horn
and Associates, Inc.

ATTACHMENT 5

SUBCONSULTANT FEE PROPOSAL

For

Environmental and Geotechnical Specialists, Inc.

West Tharpe Street Final Design

Leon County, Florida

Prepared for:

Leon County Department of Public Works

EGS

ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

RECEIVED BY
MAR 2 8 2005
KHA-JAX

March 25, 2005

Kimley-Horn and Associates, Inc.
8711 Perimeter Park Boulevard
Jacksonville, Beach FL 32216

ATTN: John McDowell
Project Manager.

SUBJECT: Cost Proposal for Geotechnical Services
Proposed Roadway Improvements
Tharpe Street from Capital Circle to Ocala Road
Leon County, Florida

Dear John:

Attached is the requested cost proposal to provide the Geotechnical Services for the above referenced project. EGS will obtain the required clearances and FDOT permits

If you have any questions concerning this Cost Proposal of costs, please call me.

Very truly yours,

Environmental and Geotechnical Specialists, Inc.

Myron L. Hayden, P.E.
Consulting Geotechnical Engineer

Attachment: Work Effort
Cost Estimate

3154 ELIZA ROAD / TALLAHASSEE, FL 32308 / (850) 386-1253 / FAX (850) 385-8050

ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.
WORK EFFORT ESTIMATE FOR GEOTECHNICAL INVESTIGATION

PROJECT: THARPE STREET
LOCATION: FROM CAPITAL CIRCLE NW TO OCALA ROAD
LEON COUNTY

DATE: 3-20-06
CLIENT: KIMLEY HORN
LENGTH 2.44 miles 4 lane road
_____ miles 2 lane transition
0.5 miles 2 lane side roads

SCOPE OF SERVICES: GEOTECHNICAL
NO LANES: 4
TASK B: STRUCTURAL

CULVERTS		
Culvert Locations		locations
No. of Borings		borings
Install 15' SPT borings=		ft (SPT)
Sample - Extra Split Spoon		ea
Conduct Corrosivity Tests for soil & water =		tests
Conduct the following geotechnical laboratory tests:		
- 1 grain-size 2 per soil boring =		tests
- 1 plasticity per soil boring		tests
- 1 organic content per soil boring		tests

BOX CULVERT		
Number of Box Culverts =		1 culverts
Number of borings		2 borings
Install 25' SPT borings on 2.5 ' centers =		50 ft (SPT)
Install 20' SPT borings on 2.5 ' centers for approaches =		ft (SPT)
Sample - Extra Split Spoon		10 ea
Sample-2 Undisturbed Sample/culvert		2 shelby tubes
Conduct Corrosivity Tests for soil & water =		1 tests
Conduct the following geotechnical laboratory tests:		
- 1 grain-size per 5' of soil boring =		10 tests
- 1 plasticity per 25' of soil boring =		2 tests
- 1 organic content per 25' of soil boring =		2 tests
- 2 unconfined compression per culvert =		2 tests
- 1 consolidation per culvert =		1 tests

EMBANKMENTS		
Number of Borings =		borings
Install SPT borings (1-20', 6-30', 3-50') =	0-50 ft	ft (SPT)
	> 50 ft	ft (SPT)
Sample - Extra Split Spoon		ea
Collect 2 undisturbed soil samples/boring =		shelby tubes
Conduct the following geotechnical laboratory tests:		
- 1 grain-size per 10' of soil boring =		tests
- 1 plasticity per 20' of soil boring		tests
- 1 organic content per 20' of boring		tests
- 1 unconfined compression per boring		tests
- 1 consolidation per 3 borings =		tests
- 1 triaxial per 4 borings =		tests

KARST INVESTIGATION		
Number of Borings =		3 borings
Install 80' SPT borings	0 - 50 ft	150 ft (SPT)
	>50 ft	30 ft (SPT)
Sample - Extra Split Spoon	0 - 50 ft	90 ea
	>50 ft	6 ea
Conduct the following geotechnical laboratory tests:		
- 1 grain-size per 10' of soil boring =		18 tests
- 1 plasticity per 20' of soil boring		9 tests
- 1 organic content per 20' of soil boring		9 tests

MAST ARM SIGNALIZATION	
No. of Mast Arm Signals Intersections (2 borings per Intersec	8 borings
Install 1-30' SPT borings/mast arm =	240 ft (SPT)
Sample - Extra Split Spoon	48 ea
Conduct the following geotechnical laboratory tests:	
- 1 grain-size per 5' of soil boring =	48 tests
- 1 plasticity per 10' of soil boring	24 tests
- 1 organic content per 10' of soil boring	24 tests

RETAINING WALLS	
Length of Retaining Wall	600 feet
No. of Borings	7 borings
Install 50' SPT borings =	350 ft (SPT)
Sample - Extra Split Spoon	70 ea
Conduct the following geotechnical laboratory tests:	
- 1 grain-size per 10' of soil boring =	35 tests
- 1 plasticity per 20' of soil boring	18 tests
- 1 organic content per 20' of soil boring	18 tests

TOTALS:
20 BORINGS
790 SPT (0-60')
30 SPT (60-100')
820 TOTAL SPT

ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.
WORK EFFORT ESTIMATE FOR GEOTECHNICAL INVESTIGATION

PROJECT: THARPE STREET
LOCATION: FROM CAPITAL CIRCLE NW TO OCALA ROAD
LEON COUNTY

DATE: 3-20-08
CLIENT: KIMLEY HORN
LENGTH 2.44 miles 4 lane road
miles 2 lane transition
0.5 miles 2 lane side roads
NO LANES: 4

SCOPE OF SERVICES: GEOTECHNICAL
TASK B: STRUCTURAL

LABOR CATEGORY (Hours)		Chief Engineer	Senior Engineer	Engineer	Engineer Intern	Sr Engr Technician	Engnr Technician	Secretary	SUBTOTAL
30.24	Develop Detailed Boring Location Plan			2				1	2
30.25	Stake Boring Locations in Field/Utility Clearance		3	5				2	10
30.26	Coordination and Develop MOT			1	3			2	6
30.27	Drilling Access Permits		2	4				2	8
30.28	Property Clearances			8				4	12
30.29	Collection of Corrosion Samples			1					1
30.30	Coordination of Field Work		3	9					12
30.31	Soil & Rock Classification - Structures		2	4	5	4	2		17
30.32	Tabulate all Laboratory & Field Data		1	2	2	2	1		8
30.33	Estimate Design Groundwater Level for Structures		2	2				2	6
30.34	Selection of Foundation Alternatives (BDR)								
30.35	Analysis of Foundation Alternate(s)								
30.36	Bridge Construction and Testing Recommendations								
30.37	Karst Feature Analysis		5	10	5				20
30.38	Retaining Walls, Embankments		30	15	11			4	60
30.40	Signs, Signals, High Mast Lights, Strain Poles		8	16	4			4	32
30.31	Box Culvert Analysis		4	8	2			2	16
30.42	Final Report Karst Features		5	10	4			1	20
30.44	Final Report - Mast Arm Signals, Retaining Walls		7	16	7			2	32
30.45	SPT Boring drafting				5	17	9		34
STRUCTURAL GEOTECHNICAL SUBTOTAL (LABOR - HOURS)			72	113	51	23	12	26	296
					297				

ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.
PROJECT ESTIMATE FOR GEOTECHNICAL INVESTIGATION

PROJECT: THARPE STREET
LOCATION: FROM CAPITAL CIRCLE NW TO OCALA ROAD
LEON COUNTY

FINANCIAL PROJ NO:
TASK C: MANAGEMENT

DATE: 3-20-05
CLIENT: KIMLEY HORN
LENGTH 2.44 miles 4 lane road
miles 2 lane transition
0.5 miles 2 lane side roads
NO LANES: 4

LABOR CATEGORY (Hours)		Chief Engineer	Senior Engineer	Engineer	Engineer Intern	Sr Engr Technician	Engrg Technician	Secretary	SUBTOTAL
GEOTECHNICAL SUBTOTAL (LABOR - HOURS)			127	227	137	83	30	35	638
					639				
30.46	*Specification Development and Review (TSP)*								
30.47	*Field Reviews*		8						8
30.48	*Meetings (Assumed 6 Meetings at 2 hrs)*		12						12
30.49	*Quality Assurance/Quality Control (Assumed 2%)*	7	4					2	13
30.50	*Supervision (Assumed 2%)*	3	6			4			13
GEOTECHNICAL NONTECHNICAL SUBTOTAL (LABOR - HOURS)		10	30			4		2	46
					46				
30.51	*Coordination (Assumed 2%)*	7	4					2	13
30.52	*Optional Preliminary Contamination Assessment*								
MAN-HOUR CATEGORY GEOTECHNICAL TOTAL		17	157	227	137	87	30	37	697
30. GEOTECHNICAL TOTAL					697				

ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.
PROJECT ESTIMATE FOR GEOTECHNICAL INVESTIGATION

PROJECT: THARPE STREET
LOCATION: FROM CAPITAL CIRCLE NW TO OCALA ROAD
LEON COUNTY

DATE: 2-15-05
CLIENT: KIMLEY HORN
LENGTH 2.44 miles 4 lane road
0.5 miles 2 lane side roads

SCOPE OF SERVICES:

TASK A ***GEOTECHNICAL***

* **Roadway** * **Stormwater Ponds**

	UNITS	NO. OF UNITS	COST/UNIT	COST
LABOR CATEGORY				
Sr Engineer	hr	55	$139.69	$7,682.95
Engineer	hr	114	$73.03	$8,325.42
Engineer Intern	hr	86	$58.14	$5,000.04
Sr Engineering Technician	hr	60	$50.63	$3,037.80
Engineering Technician	hr	18	$38.01	$684.18
Secretarial	hr	9	$39.71	$357.39
Labor Subtotal			***$25,087.78***	
DRILLING CATEGORY				
Mobilization/Demobilization				
Mobilization/Demobilization	ea	2	$150.00	$300.00
0-50'				
Auger Borings	ft	535	$6.80	$3,638.00
SPT Boring (0-50)	ft	880	$10.50	$9,240.00
Sample-Extra Split Spoon (0-50)	ft	176	$21.00	$3,696.00
Other				
Grouting	ft	880	$4.00	$3,520.00
Asphalt Pavement Coring	ft	6	$125.00	$750.00
Drilling Subtotal			***$21,144.00***	
GEOTECHNICAL LABORATORY CATEGORY				
Grain Size - Sieve Analysis	ea	80	$32.00	$2,560.00
Plasticity	ea	40	$68.00	$2,720.00
Organic Content	ea	40	$26.00	$1,040.00
LBR	ea	18	$300.00	$5,400.00
Asphalt Core Test	ea	6	$200.00	$1,200.00
Laboratory Subtotal			***$12,920.00***	
FIELD CATEGORY				$0.00
Infiltration Test	ea	8	$300.00	$2,400.00
Field Subtotal			***$2,400.00***	
	SUBTOTAL TASK A		**$61,551.78**	

ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.
PROJECT ESTIMATE FOR GEOTECHNICAL INVESTIGATION

PROJECT: THARPE STREET
LOCATION: FROM CAPITAL CIRCLE NW TO OCALA ROAD
LEON COUNTY

DATE: 2-15-05
CLIENT: KIMLEY HORN
LENGTH 2.44 miles 4 lane road
0.5 miles 2 lane side roads

SCOPE OF SERVICES:

TASK B ***GEOTECHNICAL***

- **Karst Investigation**
- **Retaining Walls**
- **Mast Arm Signalization**

	UNITS	NO. OF UNITS	COST/UNIT	COST
LABOR CATEGORY				
Sr Engineer	hr	72	$139.59	$10,050.48
Engineer	hr	113	$73.03	$8,252.39
Engineer Intern	hr	51	$58.14	$2,965.14
Sr Engineering Technician	hr	23	$50.63	$1,164.49
Engineering Technician	hr	12	$38.01	$456.12
Secretarial	hr	26	$39.71	$1,032.46
Labor Subtotal			***$23,926.28***	
DRILLING CATEGORY				
Mobilization/Demobilization				
Mobilization/Demobilization	ea	3	$150.00	$450.00
0-50'				
SPT Boring (0-50)	ft	790	$10.50	$8,295.00
Sample-Extra Split Spoon (0-50)	ft	158	$21.00	$3,318.00
50-100'				
SPT Boring (50-100)	ft	30	$12.50	$375.00
Sample-Extra Split Spoon (50-100)	ft	6	$24.00	$144.00
Other				
Grouting	ft	820	$4.00	$3,280.00
Drilling Subtotal			***$15,862.00***	
GEOTECHNICAL LABORATORY CATEGORY				
Grain Size - Sieve Analysis	ea	111	$32.00	$3,552.00
Plasticity	ea	53	$68.00	$3,604.00
Organic Content	ea	53	$26.00	$1,378.00
Laboratory Subtotal			***$8,534.00***	
	SUBTOTAL TASK B		**$48,324.28**	

ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.
PROJECT ESTIMATE FOR GEOTECHNICAL INVESTIGATION

PROJECT: THARPE STREET
LOCATION: FROM CAPITAL CIRCLE NW TO OCALA ROAD
LEON COUNTY

DATE: 2-15-05
CLIENT: KIMLEY HORN
LENGTH 2.44 miles 4 lane road
0.5 miles 2 lane side roads

SCOPE OF SERVICES:

TASK C ***GEOTECHNICAL***

- **Meetings**
- **Quality Assurance**
- **Coordination**
- **Field Reviews**
- **Supervision**

	UNITS	NO. OF UNITS	COST/UNIT	COST
LABOR CATEGORY				
Chief Engineer	hr	17	$166.05	$2,856.85
Sr Engineer	hr	34	$139.69	$4,749.46
Sr Engineering Technician	hr	4	$50.63	$202.52
Secretarial	hr	4	$39.71	$158.84
	SUBTOTAL TASK C		$7,967.67	
			PROJECT TOTAL	$117,843.73

ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.
WORK EFFORT ESTIMATE FOR GEOTECHNICAL INVESTIGATION

PROJECT: THARPE STREET
LOCATION: FROM CAPITAL CIRCLE NW TO OCALA ROAD
LEON COUNTY

DATE: 6-28-06
CLIENT: KIMLEY HORN
LENGTH 1,875 feet of noise wall

SCOPE OF SERVICES: GEOTECHNICAL
TASK D: NOISE WALL (CANTILEVERED)

ROADWAY LANE ADDITION AND STORMWATER PONDS

NOISE WALL ADDITION		
1,875 feet of Noise Wall		
Mobilization/Demobilization =	2	
Install: 20' SPT borings on 2.5' centers =	8 borings	
(every 360 feet) =	200 ft	
Sample - Extra Split Spoon	40 ea	
Conduct the following geotechnical laboratory tests:		
- 1 grain-size per 20' of soil boring =	10 tests	
- 1 plasticity per 40' of soil boring	5 tests	
- 1 organic content per 40' feet of soil boring	5 tests	
TOTALS:	8 borings 200 ft of SPT borings	

LABOR CATEGORY (Hours)		Chief Engineer	Senior Engineer	Engineer	Engineer Intern	Sr Engr Technician	Engnr Technician	Secretary	SUBTOTAL
30.1	Document Collection and Review								
30.2	Develop Detailed Boring Location Plan								
30.3	Stake Boring Locations in Field/Utility Clearance			1	4			1	6
30.4	Coordination and Develop MOT			1				1	2
30.5	Drilling Access Permits								
30.6	Property Clearances			2				2	4
30.7	Groundwater Monitoring								
30.8	LBR Sampling								
30.9	Coordination of Field Work		1	2					3
30.10	Soil & Rock Classification - Roadway								
30.11	Determine Design LBR								
30.12	Tabulate all Laboratory & Field Data			2	6				8
30.13	Estimate Seasonal High Water Table								
30.14	Calculate Parameters for Water Retention Areas								
30.15	Delineate limits of Unsuitable Material								
30.16	ASCII Files for Cross-Sections								
30.17	Embankment Settlement and Stability								
30.18	Stormwater Volume Recovery								
30.19	Geotechnical Recommendations		1	4	12			2	19
30.20	Preliminary Roadway Report								
30.21	Preparation of Final Report		3	4	12			2	21
30.22	Auger Boring Drafting								
30.23	SPT Boring Drafting								
GEOTECHNICAL SUBTOTAL (LABOR - HOURS)			5	16	34			8	63
					63				

ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.
PROJECT ESTIMATE FOR GEOTECHNICAL INVESTIGATION

PROJECT: THARPE STREET
LOCATION: FROM CAPITAL CIRCLE NW TO OCALA ROAD
LEON COUNTY
FINANCIAL PROJ NO:
TASK E: ADDITIONAL MANAGEMENT

DATE: 6-28-06
CLIENT: KIMLEY HORN
LENGTH 1875 feet of noise wall

LABOR CATEGORY (Hours)	Chief Engineer	Senior Engineer	Engineer	Engineer Intern	Sr Engr Technician	Engnr Technician	Secretary	SUBTOTAL
GEOTECHNICAL SUBTOTAL (LABOR - HOURS)		5	16	34			8	63
				SREFI				
30.46 *Specification Development and Review (TSP)*								
30.47 *Field Reviews*								
30.48 *Meetings (Assumed 1 Meetings at 2 hrs)*		2						2
30.49 *Quality Assurance/Quality Control (Assumed 2%)*	2							2
30.50 *Supervision (Assumed 2%)*	1							1
GEOTECHNICAL NONTECHNICAL SUBTOTAL (LABOR - HOURS)	3	2						5
				5				
30.51 *Coordination (Assumed 2%)*		2						2
MAN-HOUR CATEGORY GEOTECHNICAL TOTAL	3	9	16	34			8	70
30. GEOTECHNICAL TOTAL				70				

ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.
PROJECT ESTIMATE FOR GEOTECHNICAL INVESTIGATION

PROJECT: THARPE STREET
LOCATION: FROM CAPITAL CIRCLE NW TO OCALA ROAD
LEON COUNTY

DATE: 6-28-05
CLIENT: KIMLEY HORN
LENGTH 1,875 feet of noise wall
0.5 miles 2 lane side roads

SCOPE OF SERVICES:

TASK D ***ADDITIONAL GEOTECHNICAL***
* **Noise Wall (Cantilevered)**

	UNITS	NO. OF UNITS	COST/UNIT	COST
LABOR CATEGORY				
Sr Engineer	hr	12	$139.69	$1,676.28
Engineer	hr	16	$73.03	$1,168.48
Engineer Intern	hr	34	$58.14	$1,976.76
Sr Engineering Technician	hr		$50.63	$0.00
Engineering Technician	hr		$38.01	$0.00
Secretarial	hr	8	$39.71	$317.68
Labor Subtotal			$5,739.20	
DRILLING CATEGORY				
Mobilization/Demobilization				
Mobilization/Demobilization	ea	2	$150.00	$300.00
0-50'				
SPT Boring (0-50)	ft	200	$10.50	$2,100.00
Sample-Extra Split Spoon (0-50)	ft	40	$21.00	$840.00
Other				
Grouting	ft	200	$4.00	$800.00
Drilling Subtotal			$4,040.00	
GEOTECHNICAL LABORATORY CATEGORY				
Grain Size - Sieve Analysis	ea	10	$32.00	$320.00
Plasticity	ea	5	$68.00	$340.00
Organic Content	ea	5	$26.00	$130.00
Laboratory Subtotal			$790.00	
Field Subtotal			$0.00	
	SUBTOTAL TASK D		$9,969.20	

Kimley-Horn
and Associates, Inc.

ATTACHMENT 6

SUBCONSULTANT FEE PROPOSAL

For

TBE Group, Inc.

West Tharpe Street Final Design

Leon County, Florida

Prepared for:

Leon County Department of Public Works

TBE GROUP

February 18, 2005

Mr. John M. McDowell, PE
Kimley-Horn and Associates, Inc.
8711 Perimeter Park Boulevard, Suite 4
Jacksonville, Florida 32216

VIA FAX #904-998-2197
Hard Copy to Follow

RE: Tharpe Street West; Capital Circle to Ocala Road, Leon County
Tallahassee, Florida

Dear Mr. McDowell:

Thank you for requesting TBE Group, Inc. (TBE) to prepare a **revised** cost proposal for Subsurface Utility Engineering (SUE) services on the above referenced project. The fee proposal includes both limiting amounts and lump sum for direct expenses as indicated below. The rates are based upon current FDOT District III SUE Rates.

It is our understanding that the SUE effort will consist of the scope of work described in Attachment "A" and "B".

TBE proposes to provide these services for the following fee:

Initial Investigation/Quality Control	$930.52
SUE Field Services	$67,155.75
Miscellaneous Out-of-Pocket Expenses	$4,350.00
Direct Expenses (Lump Sum)	$200.00
Total	$72,636.27

It is our understanding that surveying services will be provided by Diversified Surveyors of Tallahassee for this project. A sample of TBE's Test Hole Data form is attached, which is the Deliverable.

Oakbridge Complex • 725 Southeast Baya Drive, Suite 106 • Lake City, Florida 32025
T: 386.755.2626 • F: 386.755.2507 • www.tbegroup.com

TBE is committed to diligently working to complete this project. Meeting your schedule will require close coordination between the Kimley-Horn and Associates, Inc. and TBE, as well as our receiving a timely notice to proceed. All work will be done in accordance with the Manual on Uniform Traffic Control.

I look forward to working with you on this very important project. If you have any questions, please call.

Sincerely yours,

TBE GROUP, INC.

James R. Allen
Senior Project Manager

JRA:bs

cc: Mr. R. M. Pitchford, TBE

Attachments

If you accept this proposal, please sign below:
Date

STATE ROAD NO.: Tharpe Street West, Tallahassee, Florida
DESCRIPTION: Provide ASCE Quality Level "A" VVH Locating SUE Services; 200 Conflicts

Principal		Hours		Hour	$0.00
Project Manager	4	Hours	$141.93	Hour	$567.72
SUE Supervisor		Hours		Hour	$0.00
Technical Support/Secretary	8	Hours	$45.35	Hour	$362.80
				Subtotal	$930.52
SUE Designating Services Tonable		Day	$1,713.52	Day	$0.00
Excessive Travel for Designating (31-50 miles)		Day		Day	$0.00
Excessive Travel for Designating (51 - 80 miles)		Day	$365.91	Day	$0.00
SUE Designating Services Non-Tonable		Day		Day	$0.00
Excessive Travel for Locating (31 - 50 miles)		Day		Day	$0.00
Excessive Travel for Locating (51 - 80 miles)		Day		Day	$0.00
SUE Locating Services- 200 Conflicts	29	Day	$2,220.30	Day	$64,388.70
Excessive Travel for Locating (31 - 50 miles)		Day		Day	$0.00
Excessive Travel for Locating (51 - 80 miles)	5	Day	$553.41	Day	$2,767.05
Video Designating		Ft.		L.F.	$0.00
Maintenance of Traffic		Day		Day	$0.00
SUE Supervisor		Hours		Hour	$0.00
				Subtotal	$67,155.75
Establish Control Lines, Bench Marks, and		Day		Day	$0.00
Office Calculation		Hours		Hour	$0.00
Professional Land Surveyor - Sign & Seal		Hours		Hour	$0.00
Draftsperson		Hours		Hour	$0.00
				Subtotal	$0.00
CAiCE/EFB Engineer		Hours		Hour	$0.00
CADD Technician		Hours		Hour	$0.00
SUE Supervisor		Hours		Hour	$0.00
				Subtotal	$0.00
Truck Mobilization		Day	$0.00	Day	$0.00
Per Diem (3 associates x 29 days = 150 days)	87	Day	$50.00	Day	$4,350.00
Project Mileage		Mile		Mile	$0.00
				Subtotal	$4,350.00
Direct Expenses	1	Lump Sum	$200.00	Lump Sum	$200.00
				Subtotal	$200.00
					$72,636.27

NOTE: Survey by Diversified.

ATTACHMENT "B"

SUBSURFACE UTILITY ENGINEERING/SUE
SCOPE OF SERVICES
THARPE STREET WEST
LEON COUNTY

PROJECT LENGTH: Capital Circle NW to Ocala Road; 2.5 Miles

2.5 Miles x 5280= 13,200' Length

UNDERGROUND UTILITIES: Water, Gas, 2 Buried Copper Telephone Cables, 1 Fiber Optic Cable

NOTE: Sanitary is gravity and will be surveyed with no SUE required

ASCE Quality Level "B" Designating: **(Deleted, Not required)**

13,200' x 5 Utilities= 66,000'

66,000' divided by 3,500' per day= 19 Days Designating

ASCE Quality Level "A" VVH Locating: 200 VVH Locates at Conflicts

200 VVH Locates divided by 7 Locates per day = 29 Days

NOTE: Utility owners are; City of Tallahassee Water, Sewer, Gas, and Electric, Sprint, Quest, KMC Communications, and COMCAST CATV.

NOTE: Cross drains are expected every 300' in the new curb and gutter design.

NOTE: Conflicts will be identified by Kimley Horm at about 60% Design stage.

NOTE: Survey by Diversified.